

SANA BARAKAT

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SUMMARY OF EXPERIENCE

Effective leader in the environmental industry with over 30 years' experience managing multidisciplinary teams of experts for multi-million-dollar projects for key NYC, NYS and other governmental clients, public agencies, as well as private sector clients. Specializes in the management of planning and engineering design of new municipal and industrial facilities and for the upgrade of existing structures in the architectural, infrastructure, mechanical and process design fields with a considerable experience in water quality, environmental health & safety, regulatory compliance and reporting, resiliency, energy and GHG emission reduction, and construction management. Certified Project Manager and Envision Sustainability Professional with technical managerial skills that are best demonstrated on large-scale, multifaceted projects.

PROFESSIONAL EXPERIENCE

New York City Department of Citywide Administrative Services - New York, NY

Deputy Commissioner and NYC Chief Decarbonization Officer: 7/2023 - Present

Deputy Commissioner of the Division of Energy Management and serves as the City of New York's Chief Decarbonization Officer. Responsible for overall management of carbon emissions from municipal operations to achieve the City's mandates to reduce 50% of greenhouse gas emissions by 2030 with a long-term strategy to attain carbon neutrality by 2050. Manages a 10-year capital budget of approximately \$4 billion to undertake energy efficiency and clean energy generation interventions across a large, diverse portfolio of City buildings and other non-building stationary assets. Oversees development and management of the City's \$750+ million heat, light, and power budget that serve over 80 City agencies, demand response and load management, funding and management of large portfolio of energy projects and turnkey implementation of energy efficiency and clean energy projects for multiple City agencies, including WRRFs, cultural institutions, schools, universities, and hospitals. Oversees development of large-scale renewable energy, testing of innovative energy efficiency technologies, strategic planning, energy policy development, and energy workforce development and training for all City agencies' energy staff.

Arcadis - New York, NY, Vice President: 2006 – 6/2023

Principal-in-charge and Account Leader for multiple NYC agencies. Responsible for business development, capital project delivery, financial management, contracting and negotiating, staff management, recruitment, development, and mentoring. Also responsible for the project management, project controls, resource allocation, and execution of planning, design and design services during construction projects for public sector agencies, focusing on energy, GHG reduction, and sustainability. Managed staff of 100 engineers and specialists on projects up to \$50 million in design fees.

- Engagement Manager for the \$22 million Capital Project Scope Development Services (CPSD) for the Mayor's Office of Management and Budget (OMB). Project Manager on several task orders communicating with NYC agencies' executive leadership in establishing and identifying detailed scope of work to allocate and secure funding for Capital Projects from OMB. The on-call contract includes master plans, feasibility studies, condition assessments, stormwater management, alternatives evaluations, programming needs, cost benefit analyses, conceptual design and hazards mitigation/resiliency, compliance and regulatory requirements, and sustainability.
- Project Executive/Project Manager for multiple water and wastewater treatment projects that ranged in construction fees from \$5M to \$500M. Provided oversight of discipline leaders for the planning, design, design services during construction and construction management from inception to successful completion of projects. In charge of managing subcontractors, communicating with DEP operations and senior management and other city agencies and stakeholders. Key projects focused on regulatory compliance, energy, sustainability, and innovation include:

- Project Manager for the \$18.7 million Consent Judgement Environmental Health & Safety (EHS) Compliance Program. Managed the DEP-implemented Compliance Action Plan (CAP), environmental permitting, training of employees, and completion of numerous implementation activities to ensure compliance of all bureaus across the agency with applicable environmental and health and safety laws.
- Project Manager for an on-call contract to provide general engineering services at five NYCDEP WRRFs. Conducted performance analyses, master planning, energy audits and optimization studies.
- Project Manager for the Anammox Project at Wards Island WRRF providing facility planning and design services to incorporate a state-of-the-art nitrogen removal process that will help reduce chemical addition and GHG emissions to meet NYC's energy efficiency and sustainability goals. This project converts the SHARON Demonstration Facility at Wards Island to an MBBR deammonification facility with the long-term goal to implement at all 14 WRRFs.

Blasland, Bouck and Lee, Inc. – New York, NY, Associate: 2004-2006

- Principal Engineer responsible for planning, design, and design services during construction, proposal development, and client and staff management
- Provided the management of design services during construction (DSDC), owner representation, regulatory compliance, cost estimating, scheduling, risk assessment, and project controls to private and public sector clients.
- Managed projects in the range of \$10-\$20 million in design fees. Key projects included design and DSDC of the Powell's Cove Pump Station and Tallman Island WRRF upgrades.
- Served as Permit Task Leader for Tallman Island Upgrades Design and DSDC. Managed and obtained all city and state permits throughout design and construction.

Malcolm Pirnie, Inc. – White Plains, NY, Senior Project Engineer: 1990 – 2004

- Supported the process planning and detailed design related to upgrades and rehabilitation of municipal facilities nationwide.
- Prepared bid documents, shop drawing reviews, responses to RFIs, evaluated construction bids, and prepared change orders.
- Conducted pilot and treatability studies for industrial, pharmaceutical, and municipal clients. Conducted watershed management studies, and wastewater process simulation and modeling (Biowin and GPS-X).

EDUCATION

- Master of Engineering in Environmental Engineering, Manhattan College
- Bachelor of Engineering in Chemical Engineering, Manhattan College

LEADERSHIP

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| ■ WEF House of Delegates, NY State Representative, 2022 - 2024 | ■ NYWEA Sustainability Committee, Chair, 2018- 2021 |
| ■ New York Water Environment Association (NYWEA), Board Member, 2019 - 2024 | ■ NYWEA Environmental Justice subcommittee, Leader |
| | ■ NYWEA Met Chapter, Treasurer, 2014-2018 |

Bryan Simpson, PE, CEM, CEA, CPHC, CMVP

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♦ Mobile: (607) 221-3481 ♦ LinkedIn: www.linkedin.com/in/bryan-simpson-pe-cem-37bb6129 ♦

PROFESSIONAL EXPERIENCE

NYC DCAS – Agency Chief Decarbonization Officer *March 2023- Present*

- Lead agency decarbonization efforts across the agency portfolio, including building construction, building operations, and fleet
- Oversee agency-wide energy project implementation. Oversee the agency's efforts to deliver energy efficiency retrofit, building optimization, and clean energy projects. Ensure all projects remain on schedule, costs are controlled and within budget, and that staff are meeting project milestones and executing against project goals
- Lead energy and emissions related reporting for compliance with local laws and mandates
- Implement agency-specific and portfolio-specific decarbonization, energy management, and sustainability initiatives.
- Lead procurement of services and contractors to implement energy and emissions reduction projects.

NYC DCAS – Construction and Technical Services, Mechanical Engineer *May 2023 – Present*

- Managed the implementation of HVAC projects by regularly working with design consultants, contractors, commissioning agents, and construction managers to ensure projects adhere to scope, timeline, and budget
- Developed cost estimates, scopes of work, and full project narratives for capital funding new needs requests for heating, ventilation, and air-conditioning projects in DCAS owned buildings
- Collaborated with DCAS Facilities Management, DCAS Real Estate Services, and DCAS Division of Energy Management to scope, fund, and implement projects in DCAS owned buildings with an emphasis on energy efficiency and emissions reductions
- Met with DCAS tenant stakeholders including the Comptroller's Office, Mayor's Office, and various District Attorney's offices to gather stakeholder input and keep tenants involved as their spaces are renovated
- Performed regular site inspections at DCAS owned facilities to assess site conditions and make recommendations on capital improvements to building systems
- Developed the annual DCAS "Carbon Capital Budget" in collaboration with other lines of service, the Office of Management and Budget, and the Mayor's Office of Climate and Environmental Justice, as required by Executive Order 89 and Local Law 101 of 2021
- Tracked DCAS capital project compliance with the Green Building Laws mandated by Local Laws 86, 31, 32, and 51, specifically with LEED certification and energy cost savings

NYC DCAS – Division of Energy Management, Deputy Director *January 2019 – May 2023*

- Analyzed and implemented building-level and portfolio-level GHG emissions reduction strategies for City-owned buildings in pursuit of Local Law 97 compliance, with a prioritization on building electrification
- Worked as the DEM liaison between DCAS Construction and Technical Services, DCAS Facilities Management, and DCAS Real Estate Services to develop and implement projects to reduce greenhouse gas emissions in the 55 buildings owned by DCAS
- Developed scopes of work for City building retrofits to save energy, reduce operational expenses, and mitigate greenhouse gas emissions
- Led efforts for green building certification of City buildings including LEED and ILFI Net Zero
- Collaborated with DEM contracts team to develop and release contract RFPs for contractor and consultant services specific to energy efficiency work

- Developed and implemented guidelines for in-depth studies including envelope assessments, “energy master plans,” and deep energy retrofits
- Managed ASHRAE Level II and III energy audits as an owner’s representative for the City of New York
- Developed energy conservation measure calculators for use by agency partners in calculating energy, emissions, and cost reductions for funded projects
- Coordinated with the Mayor’s Office of Climate and Environmental Justice on proposed legislation that would impact municipal building greenhouse gas emissions with special attention paid to disadvantaged communities
- Managed expense and capital program budgets as required by the Office of Management and Budget
- Represented DCAS and the City of New York as part of the municipal building network NYC delegation at the *C40 2023 Health and Efficient Buildings Workshop* in Copenhagen, DN

Steven Winter Associates, Mechanical Engineer

July 2014 – January 2019

- Managed and conducted ASHRAE Level II audits in millions of square feet of large multifamily and commercial buildings to comply with NYC Local Law 87 of 2009
- Benchmarked large multifamily and commercial buildings to comply with NYC Local Law 84 of 2009
- Conducted in-depth testing, measurement, and verification as part of ASHRAE Level III audits through the PSEG Residential Multifamily Housing Efficiency Program
- Performed energy modeling, plan reviews, inspections, and M&V through NYSERDA’s Multifamily Performance Program
- Coordinated with engineers, architects, and contractors during implementation of energy conservation measures
- Commissioned and retro-commissioned HVAC systems in dozens of new and existing multifamily and commercial buildings

ITT – Goulds Pumps, Applications Engineer/Product Specialist

December 2011 – July 2014

- Oversaw Magnetic-Drive and Non-Metallic pump product line upkeep, sales, and market needs
- Supported sales force with engineering application expertise and custom pump pricing
- Taught Magnetic-Drive portion of week-long pump school for sales force and new employees

CERTIFICATIONS

- Professional Engineer (PE), Registered in NY – Licensed September 2023
- Professional Engineer (PE), Registered in NJ – Licensed February 2023
- Association of Energy Engineers – Certified Measurement and Verification Professional (CMVP) – Certified April 2023
- Passive House Institute – Certified Passive House Tradesperson (CPHT) – Certified December 2021
- Association of Energy Engineers – Certified Energy Auditor (CEA) – Certified April 2021
- Association of Energy Engineers – Certified Building Commissioning Professional (CBCP) – Certified April 2020
- Passive House Institute – Certified Passive House Consultant (CPHC) – Certified May 2019
- Association of Energy Engineers – Certified Energy Manager (CEM) – Certified April 2017
- Building Performance Institute – Multifamily Building Analyst (BPI-MFBA) – Certified February 2015

PUBLICATIONS

Development of a Long-Term Plan to Help NYS Owners Scale Up Deep Energy Retrofits
NYSERDA Report 17-03, February 2017

EDUCATION

Binghamton University, State University of New York

Graduated May 2011

Bachelor of Science in Mechanical Engineering - Graduated Magna Cum Laude

PROFESSIONAL AFFILIATIONS

Association of Energy Engineers NYC Chapter Member

Joined May 2017

International Living Future Institute Member

Joined December 2022

American Society of Heating, Refrigeration, & Air Conditioning Engineers Affiliate

Joined January 2023

PROFESSIONAL SKILLS

ENERGY STAR® Portfolio Manager | | Commissioning | Retro-Commissioning | Carbon Accounting
Monitoring & Verification | Training | Deep Knowledge of National Building Codes
ASHRAE Standards | NYC Local Laws | Utility Incentive Programs | Energy Auditing

SOFTWARE SKILLS

Microsoft Office Suite | Salesforce | TREAT | eQuest | Wrightsoft | AutoCAD | SketchUp
Energy Modeling

Gregory Lipay, PE, CEM

PROFESSIONAL EXPERIENCE

Deputy Director *NYC Division of Energy Management (DEM)*

October 2023 - Present

Deputy Director of Strategic Planning team providing technical and analytical expertise to develop policy and guide crafting of legislation impacting sustainability and fossil fuel use in buildings and infrastructure

Senior Program Manager, *NYC DEM*

February 2022 - October 2023

Energy Engineer, *NYC DEM, CUNY BPL Contractor*

April 2021 – February 2022

Senior Program Manager leading a small team that coordinates strategic sustainability planning across multidisciplinary teams to budget, scope, and implement emissions reduction and electrification projects across the City's public infrastructure

Tasks include:

- Planning comprehensive decarbonization and electrification projects in a scalable manner across portfolios of facilities
- Assessing data and metrics related to building energy use and emissions at a portfolio-wide scale

Notable projects include:

- NYC Local Law 97 Implementation Action Plan

Associate, *Cosentini Associates*

February 2020 – April 2021

Senior Mechanical Engineer, *Cosentini Associates*

August 2018 – February 2020

Project manager at MEP design firm working with internal teams and external clients to deliver design and construction administration services for a variety of projects in New York City

Tasks include:

- Leading internal engineering teams and sub-consultants on individual design and construction management projects
- Serving as point person for external communication with building ownership, architect, and construction team
- Managing project budgets, schedules, deadlines, and deliverables

HVAC Engineer, *WSP*

May 2016 – August 2018

HVAC systems designer for residential, commercial, and healthcare buildings

Tasks include drafting, engineering calculations, systems design, and energy analysis

Project Engineer, *CLEAResult*

September 2014 – May 2016

Energy consultant for building owners and developers

Tasks include energy modeling, energy auditing, commissioning, Measurement & Verification

EDUCATION

Boston University, Boston, MA

Mechanical Engineering, Bachelor of Science, graduated in May 2014

SKILLS

Skilled in Microsoft Word, Excel, and PowerPoint; Energy and emissions reductions analysis

CERTIFICATIONS

Professional Engineer (PE); Certified Energy Manager (CEM)

EMILY O. FORGIONE

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(978) 376-7799 • emily.forgione@gmail.com

EDUCATION

New York University, Robert F. Wagner School of Public Service <ul style="list-style-type: none">• Master of Public Administration – Public and Nonprofit Management and Policy • GPA 3.98	New York, NY May '18
Mount Holyoke College <ul style="list-style-type: none">• Bachelor of Arts, <i>Summa Cum Laude</i> • History major / Italian minor • GPA 3.93	South Hadley, MA May '11

PROFESSIONAL EXPERIENCE

Department of Citywide Administrative Services, Senior Policy Analyst <ul style="list-style-type: none">• Manage the legislative portfolio of the Division of Energy Management (DEM). Track local and state legislation; help develop DEM's position on legislation; lead the development of new DEM legislative proposals; liaise with sister agencies and City Hall on legislative matters• Compile DEM information for hearings, briefings, and other events with elected officials• Familiar with the policy and regulatory landscape around utility-scale battery storage• Help project manage the implementation of multi-agency initiatives in the citywide sustainability plan, PlaNYC	New York, NY Jan '23—present
New York City Mayor's Office of City Legislative Affairs, Senior Legislative Representative <ul style="list-style-type: none">• Negotiated local legislation with the City Council on behalf of the Mayoral Administration• Prepared City agency representatives to testify at Council oversight and legislative hearings• Served as a liaison between City agencies and City Council; provided information to and responded to inquiries from Council Members regarding Mayoral operations and initiatives	New York, NY Oct '21—Dec '22
New York City Council, Senior Policy Analyst <ul style="list-style-type: none">• Lead staffer on the 2020 Census Task Force. Managed stakeholder relationships; drafted communications; conducted briefings; mobilized Council Members to conduct census outreach and events• Staffed the Governmental Operations and Economic Development Committees• Performed policy research and analysis; drafted committee reports, opening statements, and questions; managed witness lists; made recommendations on legislation• Drafted resolutions calling on the state or federal government to perform an action	New York, NY Jun '18—Oct '21
New York City Campaign Finance Board, Special Projects Coordinator <ul style="list-style-type: none">• Conducted special research projects and analysis on campaign finance law enforcement• Produced a comprehensive cross-referencing chart for a complete overhaul of agency rules• Trained and supervised paralegals and interns	New York, NY Aug '16—Jun '18 (part time)
New York City Campaign Finance Board, Paralegal <ul style="list-style-type: none">• Assisted attorneys with campaign finance law enforcement and litigation• Tracked City Council legislation and managed administrative tasks of rulemaking• Represented the agency in Small Claims Court	New York, NY Jul '14—Aug '16

Steven Caputo

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EXPERIENCE

NEW YORK CITY DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES

Assistant Commissioner for Operations, Division of Energy Management | NY, NY | Mar 2018 - Present

- Leads operations to reduce City government greenhouse gas emissions 50% by 2030; 80% by 2050.
- Oversees implementation of \$4 billion, 10-year capital construction plan with 1,000+ active projects.
- Manages \$75 million annual program budget for building energy efficiency upgrades.
- Leads team of 45 engineers, architects, technical project managers, and analysts.

Con Edison

Consultant, REV Demonstration Program | NY, NY | May 2016 – Feb 2018

- As a consultant to Con Edison's Reforming the Energy Vision (REV) Demonstration Program, led the planning, stakeholder engagement, and competitive solicitation for demonstration projects to expand access to clean energy and increase affordability for low- and moderate-income customers.

Regional Plan Association

Consultant, Climate and Energy Program | NY, NY | Jan 2016 – Sept 2016

- Advised on climate and energy policy for the Regional Plan Association's Fourth Regional Plan.
- Organized and chaired panel discussion on regional climate policy at 2016 RPA Assembly.

COLUMBIA UNIVERSITY

Program Faculty, Sustainability Management | School of Professional Studies | Sep 2015 – Dec 2017

Lecturer | School of International and Public Affairs | New York, NY | Spring 2017

- Instructor, Sustainability Management (Fall 2017); Sustainability Metrics (Fall 2015, 2016).
- Course creator and instructor, The Urbanization Paradox (Summer 2016, 2017).
- Faculty Advisor, Capstone consulting project for Grid Alternatives Tri-State (Spring 2016).

NEW YORK CITY OFFICE OF THE MAYOR

Senior Advisor to the Deputy Mayor for Housing and Economic Development | Feb 2014 - Nov 2015

- Led research, writing, and production of *Housing New York: A Five-Borough, Ten Year Plan*.
- Shaped and shepherded signature policy initiatives including the Mandatory Inclusionary Housing program and changes to the Zoning Resolution to facilitate housing production.
- Oversaw agency portfolio including the Department of City Planning, Board of Standards and Appeals, Landmarks Preservation Commission, Loft Board, and Public Design Commission

NEW YORK CITY MAYOR'S OFFICE OF LONG-TERM PLANNING AND SUSTAINABILITY

Deputy Director | Dec 2012 - Feb 2014;

Senior Policy Advisor | June 2012 to Nov 2012;

Policy Advisor | Jan 2010 to May 2012

- Led operations, strategy development and communications for 30-person Mayoral office
- Directed the NYC Clean Heat program to phase out the use of heavy heating oil in buildings, which led to a 70% reduction in SO2 pollution in just two years and hundreds of lives saved annually
- Co-authored *Pathways to Deep Carbon Reductions*, a technical and economic feasibility assessment of reducing NYC's greenhouse gas emissions eighty percent by 2050

- Helped lead City's emergency response to the liquid fuels crisis following Hurricane Sandy
- Contributed research and analysis to the post-Sandy action plan *A Stronger, More Resilient New York*
- Helped design, write and produce the 2011 update to the City's sustainability plan, *PlaNYC*
- Served as *Ex Officio* Board member of the New York City Energy Efficiency Corporation (NYCEEC)

DESIGN TRUST FOR PUBLIC SPACE

Design Trust Fellow | New York, NY | Mar 2008 to Sept 2009

- Coauthored *High Performance Landscape Guidelines* (2010), a 200+ page manual of technical best practices for NYC's parks and landscapes with the Department of Parks and Recreation

SPATIAL INFORMATION DESIGN LAB

Research Associate | New York, NY | Jan 2008 to Jan 2009

- Coauthored *Justice Reinvestment New Orleans*, a proposal for reducing recidivism and disinvestment in the Central City New Orleans in collaboration with local leaders and the Open Society Institute

ARUP

Consultant, Transportation and Planning | New York, NY | Summer 2007

- Transportation and Planning Group Aided planning of the award-winning Taichung Gateway Park in Taichung, Taiwan. Coordinated the Lower Manhattan Parking Management and Land Use Study

NEW CIVIC WORKS

Consultant | New York, NY | Summer 2006

- Coauthored NYC Audubon Society's *Bird Safe Building Guidelines* (2007), which was awarded the American Society of Landscape Architects Communications Honor Award in 2008

LIJIANG STUDIO

Artist-in-Residence | Lijiang, China | Spring 2005

- Awarded Asian Cultural Council Humanities Fellowship to travel to Yunnan Province, China to work with local architects and partake in residency at rural arts center

DESIGN TRUST FOR PUBLIC SPACE

Design Trust Fellow | New York, NY | Nov 2003 to Feb 2005

- Coauthored *High Performance Infrastructure Guidelines* (2005), a visionary and practical handbook for creating sustainable streets and public spaces, with the NYC Dept. of Design and Construction

POLSHEK PARTNERSHIP ARCHITECTS

Intern Architect | New York, NY | Aug 2001 to Oct 2003

EDUCATION

COLUMBIA UNIVERSITY | School of International and Public Affairs (SIPA)

Master of Public Administration. Dual concentrations in Environmental Policy and Urban Policy. May 2009

COLUMBIA UNIVERSITY | Graduate School of Architecture, Planning and Preservation (GSAPP)

Coursework in the Master of Architecture Program. Sept 2005 to May 2007

PRINCETON UNIVERSITY

B.A. in Architecture, Summa cum laude. Certificate in East Asian Studies. June 2001

Awarded Prize for the Most Outstanding Senior Thesis

Grace Han

New York, NY

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Education

2003: M.S. Urban Planning
Columbia University, Graduate
School of Architecture, Planning,
and Preservation, New York

1998: B.A. East Asian Studies
Washington University, Missouri

Skills + Knowledge

- Adobe Creative Suite
- Excellent written and verbal communication skills
- Policy implementation
- Staff management
- Change management

Grace Han has over 15 years of experience overseeing capital projects through the planning and design phase, bridging programming and design conflicts, and client and stakeholder engagement. She has the combined knowledge and experience from three different city agencies, giving her a unique lens on how each of the agencies shape the built environment. She is committed to utilizing civic assets to create places of vibrancy for economic development.

Related Work Experience

New York City Department of Administrative Services (DCAS), Division of Energy Management (DEM)

Senior Director, Agency Planning and Implementation | 2023 - present

I oversee an interdisciplinary team of project managers to identify, prioritize and fund energy efficiency projects in NYC government facilities, including managing the day-to-day operations and strategic planning of the office, reviewing applications, responding to City Hall and Mayoral priorities, and supporting responses to legal and press inquiries.

- Manages a 10+ person team to work closely with NYC agencies on scoping energy efficiency projects, identifying contracts for implementation, and tracking capital project implementation through construction completion
- Coordinates with capital, strategic, and workforce development teams within DEM to ensure project development, policy alignment, and staffing and training

New York City Public Design Commission

Senior Director (promotion) | 2021-2023

- Oversees and manages staff in the design review of city-owned capital projects. Coordinates all aspects of the design review process, including understanding and commenting on design, public hearing logistics, briefing Commissioners, clarifying legal requirements, providing design feedback, and interfacing with other agencies.
- Developed Mayor's Office strategic plan, serves as Chief Performance Officer, and primary contact for Get Stuff Built initiative
- Oversees various interagency special initiatives, including design-build workshops, art policy task force, and improving website interface, process checklists, and submission guidelines
- Coordinated with DCAS on solar rooftop reviews and RFP, electric vehicle charging infrastructure, and artwork removals
- Leads culture change and reform processes for the office, including developing office protocols and policies, designing work plan, utilizing technology to advance work, and developing professional development goals and milestones.

Director of Capital Projects: New York City Public Design Commission 2015-2021

- Managed an interdisciplinary team in design review and trained staff in organization, time management, communication and taking initiative. Focused review on sustainability and green infrastructure, resiliency, citywide consistency and coordination, and long-term maintenance concerns
- Lead project manager for controversial and complex projects, including projects with construction costs exceeding \$100 million. Reviewed projects within rigid monthly review cycle.

- Fostered interagency collaboration by sharing design resources across agencies and initiating interagency workshops, compiling research efforts, and improved public and consultant perception of the Design Commission
- Collaborated on research initiatives to build staff and Commission's knowledge on design-build standards and pre-fabrication modules and processes, culminating in a collaboration with Columbia University and the Center for Architecture.
- Supervised logistics for monthly Commission hearings.
- Oversees team training to encourage collaboration, innovation, and flexibility.

Projects reviewed include: Design-Build recreation centers, 175 Park Avenue commercial office building and open space, and administrative and maintenance offices

**Design Liaison: New York City Department of Design and Construction
2012 - 2015**

- Worked with project managers and clients to develop project scopes and schedule for capital projects, implement procurement by issuing RFPs and conducting site visits, and oversaw peer reviews
- Provided leadership and mediation between client agency, DDC, consultant, and other related agencies to address issues on cost, schedule, design, or achieving regulatory approvals
- Reviewed schematic designs for over 50 public buildings and infrastructure projects to achieve desired outcomes and ensure consistency and accuracy in drawings
- Secured approvals from the Public Design Commission for more than 100 projects
- Developed checklists, templates, and resources for PDC submissions to assist agency project managers and consultants

Projects managed included: NYPL libraries, including Westchester Square branch and Hamilton Fish Park branch, DOT plazas, and Tillary Street reconstruction

City Planner and Project Manager for Lower Manhattan: NYC Department of City Planning 2006 – 2012

- Lead planner for Community Board 1, Manhattan. Managed over 50 planning projects and carried them through DCP pre-certification and ULURP
- Reviewed designs and design guidelines for streetscapes, parks, façade improvements, WTC site, including the performing arts center, and coordinate across multiple agencies and clients, as part of 9/11 redevelopment
- Presented regularly to Community Board and electeds

Projects managed include: WTC Performing Arts Center, North Tribeca rezoning, 50 West Street mixed-used development, Pier 17 redevelopment, NYC Vision 2020 Comprehensive Waterfront Plan, Cornell Tech University zoning and urban design, East River Waterfront and Esplanade design, and World Financial Center redevelopment

HAROLD BARRIOS M.E., C.E.M., E.I.T.

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Director with experience in the performance management, programmatic approach, and day to day operations of an energy efficiency capital program to support decarbonization strategies to decrease greenhouse emissions and meet targets set by the city of New York. Responsible for the delivery of a large portfolio of turnkey energy efficiency projects citywide and collaborate with city agencies to maximize energy reductions in their portfolio of buildings. Mechanical Engineer with more than 15 years of experience in the design and implementation of building retrofits, comprehensive systems, and wastewater treatment facilities. Lead engineer for capital projects involving all engineering disciplines.

PROFFESIONAL EXPERIENCE

NYC Department of Citywide Administrative Services (DCAS), Manhattan, NY

09/18 – Present

DIRECTOR CAPITAL PROJECT IMPLEMENTATION: Responsible for the planning, evaluation, and delivery of a turnkey energy efficiency capital program. Performance management of projects from conceptualization up to completion and close out. Developed strategic partnership with the New York Power Authority “NYPA” and the Department of Design and Construction “DDC” to deliver energy efficiency projects citywide. Involved in the performance review of energy efficiency, code compliance, local laws, and regulatory agencies, to maximize energy opportunities beyond code targeting low energy intensity buildings and deep energy retrofits.

- Implementing new models to deliver capital projects. Programmatic development and implementation of methods to deliver capital projects using different delivery models.
- Managed the conceptualization and implementation of direct install programs to deliver large scale capital and expense projects.
- Collaborated in the development of operations and maintenance (O&M) programs at agency, facility, and project level.
- Worked with several stakeholders at different city agencies to close gaps and integrate facilities and engineering teams in the development of capital, energy, and facility master plans.
- Reviewed and approved no-cost / low-cost energy strategies to optimize building operations and efficiency.
- Implemented strategies to streamline processes to secure funding opportunities for multiple projects similar in building typology, scope, and energy analysis.
- Standardized and formatted procurement packages “certificate to proceed (CP) and registrations for capital projects. Provided capital procurement training citywide to share effective business practices and lessons learned from preparing, submitting, and obtaining approval of CPs and registrations.
- Restructured, reorganized, and standardized the NYPA turnkey program.
- Established business practices and protocols to process capital payments and change orders.
- Provided technical and project management expertise for the development of contract master agreements.
- Delivered standard operating procedures “SOPs” for turnkey capital project implementation programs.
- Managed capital and expense financial plans. Involved in the planning and execution of capital plans to meet financial goals and commitment rates. Track and report financial updates to understand progress to meet goals. Prepared and delivered expense budget for initiatives in a year-to-year basis.
- Supported the development and integration of salesforce into the capital project implementation day to day operations.
- Developed and analyzed energy “ASHRAE level II and level III” audits to validate key performance indicators, engineering calculations and energy analysis. Evaluated energy efficiency measures for constructability and scope development. Recommended cost-effective energy conservation measures to enhance systems efficiency and propose actions to improve systems at several facilities.
- Involved in the development of guidelines for deep energy retrofits, incremental funding opportunities, and energy profile reports.

HAROLD BARRIOS M.E., C.E.M., E.I.T.

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- Supported strategies to offer systematic energy efficiency opportunities to reduce delivery timeframe and increase projects cost/effectiveness.
- Participated in the development of Local Law 97 report as subject matter expert.

NYC Department of Citywide Administrative Services (DCAS), Manhattan, NY

09/13 – 08/18

ENERGY EFFICIENCY PROGRAM MANAGER: Responsible for a more than 90-million-dollar budget portfolio allocated to several energy efficiency capital projects citywide. Accountable for overseeing and directing the Department of Design and Construction (DDC) for the proper and timely implementation of the design and construction of large volume of energy efficiency Capital Contracts to reduce energy usage and greenhouse emissions. Manager of the DDC Low Energy Program to review and analyze energy performance of code compliance projects and low energy intensity buildings beyond code by utilizing energy modeling analysis. Liaise with the DDC's Office of Sustainable Design to incorporate energy guidelines, Operations & Maintenance (O&M), and Measurement & Verification (M&V) protocols to the DDC's Capital Program.

- Manage budgets, scopes, designs, and implementation of capital contracts under DDC administration.
- Evaluated and restructured the DDC program by providing findings and recommendations to improve the evaluation, selection, design, and deliverables of several energy conservation measures.
- Review and provide comments to energy efficiency design packages including but not limited to; design drawings, schematic designs, contract specifications, construction estimates, and relevant documentation.
- Involved in developing energy strategies to existing MEP systems such as constant volume to VAV systems, demand control ventilation, economizer controls, upgrade BAS systems and integration of existing controls, replacement of conventional heating and cooling systems to VRF technology including heat recovery.
- Experienced with the review and assessment of ASHRAE Level II energy audits, feasibility studies and energy modeling reports for new construction and renovations.
- Analyzed energy audits to validate key performance indicators, engineering calculations and energy analysis. Select the most cost-effective energy conservation measures to enhance systems efficiency and propose actions to improve systems at several facilities.
- Review, analyze, and approve Energy Master Plan reports as part of the Low Energy Pilot Program.
- Implementing NYC energy and Building code, ASHRAE 90.1 standards, NFPA, EH&S and local laws
- Performed cost analysis following AACE estimate classifications.
- Developed technical framework for the Executive Order 26 RFI, implemented evaluation guidelines and classification procedures for more than 4000 city owned buildings.
- Developed standard operating procedures for the DDC program

NYC Department of Environmental Protection, Queens, NY

09/06 – 08/13

ASSOCIATE PROJECT MANAGER: Responsible for planning, coordinating, and directing the timely implementation of the design and construction of medium and large volume Capital Contracts as well as in-house projects. Build partnerships with both City and State agencies to execute construction schedules.

- Involved with the design of different capital contracts prepared/submitted by engineering consulting firms for the reconstruction of several New York City wastewater treatment plants in all five boroughs.
- Design and prepare specifications for capital, expense, and JOC contracts.
- Analyze existing equipment to enhance systems efficiency and propose actions to meet operational goals.
- Perform field inspections to check progress and completion of contracts. Manage the implementation of consent order contracts.
- Prepare engineering drawings, cost estimates, design and construction schedules for different capital contracts.
- Experience with methane gas and ancillary equipment installed in explosion proof areas.

HAROLD BARRIOS M.E., C.E.M., E.I.T.

92 Stelling Avenue, Maywood, N.J.

hartol@hotmail.com | Mobile (646) 249 8756

- Implemented a pilot project to add glycerol to aeration tanks to reduce the amount of nitrogen released into the Jamaica Bay.
- Understanding of large bio-fuel internal combustion engines and diverse pumping systems for clean and wastewater.

EDUCATION

M.E., Mechanical Engineering; the City College of New York: Feb 2006

B.E., Mechanical Engineering; the INCCA University of Colombia: Dec 1997

LANGUAGES

Bilingual: Fluent in Spanish

Ethan Li

903 East 6th Street Apt. 4A New York, NY 10009

646-238-6394

email: QFETHAN@gmail.com

Work History:

- ❖ **Sr. Program Manager, New York City Department of Citywide Administrative Services, February, 2020 – Present**
 - Manage design-build energy efficiency projects by developing and reviewing scopes with contractors and consultants
 - Manage design-build project's initiation, RFQ and RFP review and development, design and construction process by providing recommendations on deliverables prepared by consultant, ensuring projects are completed on time with cost-effective manner
 - Review Energy Audits and Energy Efficiency Reports (EER) to help guide project selection
 - Review and provide technical services for energy efficiency projects submitted by agency partners through Accelerated Conservation and Efficiency (ACE) programs
 - Perform engineering calculations and review energy modeling to verify estimated project energy usage, cost savings and greenhouse gas emissions
 - Conduct field assessment and identify energy reduction opportunities at various City buildings
 - Conduct field measurement and verification activities from completed energy efficiency projects
 - Perform program data collection, tracking and reporting to ensure energy efficiency projects' contribution towards the City's goals
- ❖ **Assistant Mechanical Engineer, New York City Department of Environmental Protection, July 2012 – February, 2020**
 - Conduct field investigations to prepare design reports which includes project schedule and cost on mechanical engineering projects in various wastewater treatment plants (WWTP)
 - Organize meetings with operation personnel, contractors, and construction management consultants
 - Prepare specifications and engineering drawings for the installation or modification of mechanical equipment in WWTP
 - Review technical proposals and construction schedules to assure conformance on project cost and completion dates
 - Review request for information, technical submittals, engineering drawings to ensure such large equipment installations are for facilities improvements
 - Supervise construction activities by preparing accurate and complete project inspection reports, and resolving problems arise during construction in meeting schedules and costs
 - Process project documents, contractor's intermediate and final payments, evaluations for project performance and adherence to bureau's environmental health and safety standards
 - Prepare and submitting project reports and updates to management
- ❖ **Assistant Project Manager, Dasny Mechanical Inc., College Point, NY: September 2011 - February 2012**
 - Prepare shop drawings, read architectural blueprints, job site surveys, and prepare submittals
- ❖ **Engineering Assistant, Photonics Industries International, Inc., Bohemia, NY: May 2009 - August 2009**
 - Prepare shop drawings for laser product/parts
 - Prepare technical manual for laser assembly procedures

Design-Build Projects:

- ❖ **DSNY – 57th Street Garage Deep Energy Retrofit**
 - Total estimated project cost: \$85M, Lead Project Manager: Evaluate EER, Recommend project for approval, Evaluate RFQ and RFP, and Contract procurement
- ❖ **DCLA – Brooklyn Museum Deep Energy Retrofit**
 - Total estimated project cost: \$42M, Lead Project Manager: Evaluate EER, Recommend project for approval, Evaluate RFQ and RFP, Contract Procurement and Supervise one Project Manager
- ❖ **DCAS – Staten Island Campus Energy Efficiency Upgrade**
 - Total estimated project cost: \$34M, Lead Project Manager: Evaluate EER, Recommend project for approval, Evaluate RFQ and RFP, Contract procurement and Supervise one Project Manager

Education:

Stony Brook University, Stony Brook, NY

- ❖ Master of Science in Mechanical Engineering, May 2011
- ❖ Bachelor of Engineering in Mechanical Engineering, May 2011

Computer Skills:

- ❖ Microsoft Office Software (Word, Excel, Outlook, PowerPoint)
- ❖ Engineering Design (Auto CAD, Auto Desk Inventor, UGS NX 5.0)
- ❖ Programming and Statistics (MatLab, Mathematica)
- ❖ CMMS and Salesforce Database

Honors & Awards:

- ❖ NYC DEP Employees of the Month for March 2014 – Rockaway WWTP Cover Project
- ❖ Mechanical Engineering Senior Design First Place Award, Stony Brook University, May 2010
- ❖ Mechanical Engineering Instrumentation Design Award, Stony Brook University, May 2010

Certification

- ❖ Certified Energy Manager

MOSTAFA FELFEL
(Permanent Resident)

Brooklyn, NY 11220

mostibra@gmail.com

C:718-809-8693

a professional engineer & professional project manager seeking a project management position.

EDUCATION

M.E, Structural Engineering, City College of New York: May 2017 GPA: 3.50
M.E, Structural Engineering, Faculty of Engineering, Alexandria University, Egypt: August 2012 GPA: 3.56
B.E, Civil Engineering, Faculty of Engineering, Alexandria University, Egypt: June 2008 GPA: 3.20

QUALIFICATIONS

Design Software: Sap2000, AutoCAD, Maple, Primavera, Visual Analysis

Application: Microsoft Word, Excel and Power Point

Certificates: P.E, LEED AP BD+C, PMP, CDT, Osha30, FE, ACI Special Inspector, CPHC

Codes: IBC, ASCE07, NDS, AISI, ACI, AASHTO, and TMS.

EXPERIENCE

Associate Project Manager, Department of Citywide Administration, NYC (DEM Unit) 05/2023-Present.

Construction Project Manager, Department of Design and Construction, NYC (ONENYC+ Health unit) 08/2017-05/2023

- Planning, Directing, and coordinating construction activities.
- Coordinated, and managed capital projects (\$13M project (DCAS Manhattan Supreme Court Energy conservation), \$2. 3M project (84th Precinct Energy conservation, now managing \$11M DCAS Manhattan civil court)).
- Prepared Communication plan and shared in the projects in initiation, design development, construction.
- procurement, execution, controlling and close out.
- Approving, preparing, and reviewing SOV, payment requisitions, change orders.
- Track project progress based on performance, budget, schedule, and quality.

ACI Special Inspector, Richmond Testing Lab, Staten Island, NY

07/14-10/15

- Checked the rebar arrangements according to the drawings and the ACI code requirements.
- Checked the formworks.
- Conducted the required concrete tests (slump test, air content, concrete temperature, concrete density, and preparing the concrete samples for compressive strength tests).

Supervisor, Markos Custom Cabinet, Queens, NY

02/13-08/13

- Supervised the wall framing (studs, the single and double plates, and dry walls) according to the drawings.
- Oversaw roof framing (rafters, joists, valleys, hips) and checking the hurricane clips.
- Supervised the radiant heating subfloor (reviewing the drawing for wood and pipes)
- Inspected the façade works (insulation with tar paper, stone shelf, and installation of stone, fascia, gutters and soffits).
- Verified plumbing (reviewing sinks, and toilets sizes and locations according to the drawings)

Site Engineer, EGC OFFICE, Alexandria, Egypt

01/12-06/12

- Reviewed the structural drawings of foundations, basement, and all floors.
- Checked the earth work (excavation, compaction and leveling).
- Inspected the concrete work (basement, and multiple floor slabs, columns, and beams).
- Reviewed the erection of steel components.
- Oversaw the brick work (internal and exterior brick walls).
- Supervised the finishing work (plastering, cladding and painting).

Geotechnical Supervisor, City Light Company, Alexandria, Egypt

10/09-10/11

- Checked the execution of pile works.

Supervisor, Elaraby Company, Alexandria, Egypt

08/08-08/09

- Reviewed steel drawings.
- Supervised the erection of steel frames

RESEARCH EXPERIENCE

Faculty of Engineering, Alexandria University, Egypt

2009-2012

- Published a paper: Properties of pull-out bond strength and concept to assess ultimate bond stress of NCS and HSC in magazine of concrete research.
- Published a paper: Bond behavior and assessment of design ultimate bond stress of normal and high strength concrete. Published by Alexandria engineering journal.

AFFILIATIONS

Member, Project Management Institute, 2012-present

Kathryn Charpin

Queens, New York • kcharpin@gmail.com • (631) 897-5400 • [LinkedIn](#)

EDUCATION

The George Washington University, Washington, DC

June 2021

Master of Environmental Resource Policy

Coursework: Policy Analysis; Environmental Law; Environmental Economics; Research Methods/Applied Statistics; Urban Sustainability; Public Budgeting, Revenue, and Expenditure Analysis

Capstone Client Project – EPA - RE-Powering America's Land Initiative

Six-state assessment of energy policy and contaminated land conditions through qualitative and quantitative analysis to determine the suitability of developing renewable energy on contaminated lands.

The Pennsylvania State University, University Park, PA

May 2018

Major: Bachelor of Science, Earth Science & Policy / Minor: Political Science

Division 1 Women's Fencing – Squad Captain

Two-time NCAA Championship competitor; earned four varsity letters and a four-year athletic academic scholarship.

WORK EXPERIENCE

NYC Department of Citywide Administrative Services (DCAS), New York, NY

December 2021- Current

Sr. Program Manager, Contracting Innovation

- Develop and implement against a contracting strategy to achieve NYC Local Law 97 of 2019 (reducing New York City government operations 40% by 2025 and 50% by 2030)
- Lead a team of three staff members and manage workload and resource planning for the team.
- Identify and target efficiencies in DCAS's procurement process and NYC procurement policies to decrease the timeline of contract execution.
- Translate business needs for clean energy and energy efficiency projects into innovate and effective procurements for project delivery.

Program Manager, Contracting Innovation

- Develop division-wide processes to enable the division to establish critical project delivery vehicles at scale.
- Track and prioritize all active procurements to increase transparency and ensure workflows remain uninterrupted.
- Educate internal partners in the procurement process effectively to create a shared language and improve our ability to serve the partners in developing solicitation and contract documents.

Booz Allen Hamilton, Washington, DC / New York, NY

January 2019 – November 2021

Sr. Environmental Regulatory Specialist – Technical Specialist

- U.S. Department of Defense Readiness and Environmental Protection Integration (REPI) Program
 - Drafted monthly status report, developed fact sheets for proposals, and prepared media summary reports for the REPI program for publication.
 - Collected web analytics data to analyze website engagement and provide recommendations for the client.
- U.S. Department of Transportation (DOT)
 - Communicated federal hazardous materials regulations to stakeholders in real-time via phone calls and emails; ~100 inquiries per week.
 - Analyzed regulations, guidance documents, and final rules to develop recommendations of improvement.
- U.S. Environmental Protection Agency
 - Communicated Clean Air Act and Clean Water Act regulations to stakeholders via phone calls.

Steven Winter Associates, Inc. (SWA), New York, NY

June 2018 - August 2018

Building Sustainability Services – Sustainability Intern

- Researched NYC building code compliance with Leadership in Energy and Environmental Design (LEED) credits.

Climate Reality Project – Penn State Campus Corps, State College, PA

November 2017 - May 2018

President/ Chapter Chair

- Developed a framework for a comprehensive energy model for Penn State to become 30% renewable by 2030.

TECHNICAL SKILLS, AWARDS

Technical Skills: Microsoft Excel; ArcGIS; SPSS; R; LEED v4 **Awards:** 2020 NASPAA-Batten "Sustainable Cities" Student Simulation First Place Global Winner

Liliya Shames, LEED AP, CBCP, CEA

Professional Experience

New York City Department of Education, New York City

2023 – Present Associate Director (Interim) – Energy

- Oversee an annual \$35 Million dollar energy project budget for the Energy and Sustainability team, including budgeting and reporting
- Manage a team of 10 energy professionals
- Direct Energy team's collaboration with Municipal and State agencies as well as private stakeholders
- Develop and implement NYCPS' Local Law 97 strategy and compliance including project and grant development

2010-2023 Deputy Director of Optimization

- Primary responsibility for identifying, implementing and managing energy reduction projects for the Borough of Manhattan at the New York City Public Schools and achieving One City Built to Last goals
- Managed over \$30 Million dollars of energy conservation projects including project development, design, specifications and construction management
- Responsible for implementing in-house Preventive Maintenance and Operations Program
- Conduct in-house energy audits in order to prioritize maintenance projects and determine optimum operating schedules
- Responsible for evaluation and selection of new HVAC automation technologies. Construction managed installation of 37 new technology projects to date
- Manage and coordinate Local Law 87 Energy Audits and Retro-Commissioning projects
- Responsible for outreach, conducting training and presentations to Custodial Engineers, School Principals, and Parent Organizations

Association For Energy Affordability, Inc Bronx, NY

2007-2010 Director, Green Building Project Services

- Developed and maintained business relationships with new and existing clients which included affordable housing developers, architects, engineers and contractors interested in pursuing LEED certification, NYSERDA, DHCR and Enterprise grants
- Managed over 30 projects in the process of LEED certification, NYSERDA Multifamily Performance Program, Enterprise Green Communities and DHCR Qualified Funding.
- Developed proposals and contracts for all projects participating in the NYSERDA Multifamily Performance Program, Enterprise Green Communities and DHCR Qualified Funding
- Supervised M&V protocols for projects participating in the NYSERDA Multifamily Performance Program
- Sole responsibility for preparing Green Development Plans for DHCR, HPD and Enterprise Green Communities proposals
- Managed staff of four Green Building Analysts. Responsibilities included: supporting staff with technical and daily responsibilities, assigning projects and hiring and training new staff.
- Additional responsibilities included ensuring project requirements are fulfilled in a timely manner, and vouching clients

1993- 2007 Engineer/Energy Auditor

- Project Manager for NYSERDA Energy Star Multifamily Pilot Project and sponsored research projects
- Project Manager for Con Edison sponsored refrigerator replacement program
- Performed energy audits for the DHCR Weatherization Assistance Program with responsibilities for site visits, building evaluations, historical energy performance of the building, energy modeling, Scope of Work and heating system specification preparation.
- Responsible for maintaining data collection quality control for AEA's MFRP research project. This included overseeing daily data downloads from multiple sites, periodic data checking, troubleshooting communication and data monitoring problems, as well as processing all metered data through data translation software. Additionally, assisted senior research staff with data analysis and reporting tasks.
- Employed energy audit software to calculate estimated reduction in energy consumption levels for the proposed scope of work. Drafted specifications for energy conservation and IAQ measures.

New York City Urban Coalition Housing Group

1991-1993 Energy Auditor

- Performed energy audits for the DHCR Weatherization Assistance Program with responsibilities for site visits, building evaluations, historical energy performance of the building, energy modeling, Scope of Work and heating system specification preparation.

A.L. Eastmond & Sons

1991-1991 Junior Engineer

- Responsible for provision of supporting documentation for the manufacturing of heating units to a variety of municipal agencies; and establishment of the computerized filing system for the Engineering Division.

Education:

Bachelor of Science, Mechanical Engineering, University of Vermont, 1991

Certification:

LEED Accredited Professional

Association of Energy Engineers Certified Building Commissioning Professional

Association of Energy engineers Certified Energy Auditor

ERSHAUN HARRIS

6801 19th Avenue Apt. 1H | Brooklyn | NY | 11204 | 347-834-2800 | ershaun.harris@gmail.com

EDUCATION

Stevens Institute of Technology

Bachelors of Engineering in *Mechanical Engineering*

Senior Design Thesis – Icing Wind Tunnel

- Designed and constructed a small-scale wind and freeze resistant testing structure.

New York University School of Professional Studies

Certificate in HVAC Design

PROFESSIONAL EXPERIENCE

Senior Energy Project Manager

03/2023 – Present

Division of Facilities Management, NYC Department of Citywide Administration, New York, NY

- Senior project manager for multiple multi-million dollar energy efficiency upgrade projects throughout DCAS buildings in NYC.
- Uses energy audits to create applications to receive funding to implement design and construction of energy efficiency projects.
- Reviews consultant energy audits for feasibility and accuracy.
- Works with DCAS DEM, DDC and DCAS CTS to deliver capital projects from creation to construction completion.

Project Manager

02/2020 – 03/2023

Division of Energy Management, NYC Department of Citywide Administration, New York, NY

- Project manager for multiple multi-million dollar energy efficiency upgrade projects throughout NYC.
- Reviews consultant energy audits for feasibility and accuracy.
- Works with senior project manager to convert scopes from energy audits to capital projects.
- Works with various agencies to deliver capital projects from creation to construction completion.
- Works with consultants to develop designs to reduce fossil fuel usage in NYC public buildings.

Junior Project Manager

04/2017 – 02/2020

Public Buildings Division, NYC Department of Design and Construction, Long Island City, NY

- Lead project manager for multiple multi-million dollar Brooklyn library renovation projects with scopes of work including roof replacements, HVAC upgrades, gut renovations and exterior renovations.
- Responsible for interagency collaboration, overseeing of design consultants and contractors, generating/upkeeping project schedules and generating/upkeeping accurate project budgets.
- Managed multiple projects in various phases of design and construction to meet deadlines and remain within budget.

References Available Upon Request

Sana Barakat | Deputy Commissioner, DEM/Chief Decarbonization Officer

Sana Barakat is the Deputy Commissioner of DEM and is responsible for overseeing the whole division and supporting the agency's hub for energy management and carbon reduction for city government operations. She oversees the management of energy supply contracting, large-scale renewable energy development, and budget development.

Previous Experience

Prior to her role as Deputy Commissioner, Sana served as Vice President of Arcadis, an engineering, and consultancy firm. In her 20 years of experience, she has served as the company's principal-in-charge and client service manager and account leader, managing projects for multiple NYC agencies, including the NYC Mayor's Office of Management and the Department of Environmental Protection. She received both her Master of Science in Environmental Engineering and Bachelor of Science in Chemical Engineering from Manhattan College.

Steven Caputo | Assistant Commissioner, Operations

Steve leads the Operations Unit, managing energy efficiency and clean energy projects to deliver on the City's energy and emissions reduction goals. In that role, he is responsible for overseeing all Operations teams, including capital and expense projects.

Previous Experience

Steve previously served as a principal at SCA Collaborative, LLC, focusing on energy, the urban environment, and strategic initiatives. In addition, he has served in the Office of the Deputy Mayor for Housing and Economic Development and the Mayor's Office of Long-Term Planning and Sustainability, and as a lecturer at Columbia University. Steve holds a Master of Public Administration from Columbia University and a Bachelor of Arts in Architecture from Princeton University.

JENNIFER BLOOM LEONE, AIA
Assistant Commissioner | Chief Sustainability Officer
NYC Department of Housing Preservation & Development
[leonej@hpd.nyc.gov/](mailto:leonej@hpd.nyc.gov)

EXPERIENCE

New York City Department of Housing Preservation & Development	New York, NY
Assistant Commissioner/ Chief Sustainability Officer	2024
Chief Sustainability Officer	2020-2023
Sustainability Officer	2018-2019
<ul style="list-style-type: none">• Serve as NYC's affordable housing liaison on climate policy and climate legislation• Responsible for developing green building standards, including HPD's low-carbon and climate-resilient Design Guidelines for Preservation and New Construction and the New York City Overlay of Enterprise Green Communities• Work closely with the New York State Energy and Research & Development Authority (NYSERDA) and others to develop and fund critical decarbonization initiatives and programs• Have procured nearly \$100 million to date in external funding and grants to develop programs to test innovative ideas and bring them to scale, including the joint HPD-NYSERDA Retrofit Electrification Pilot and Future Housing Initiative, HPD's Solar Where Feasible Program, HPD's 321...Go! Program, and HPD's Resilient Community Hub Grant• Creation and oversight of critical policies to support building decarbonization and beneficial electrification, including HPD's Green Utility Allowances, Electric Maintenance and Operations standards, and HPD's Electric Heating Policy• Develop public-facing White Papers to support decarbonization of affordable housing• Develop capacity-building internal and external trainings and events related to decarbonization, resiliency and workforce development	
New York City College of Technology	New York, NY
Adjunct Professor, Architecture	2017-2020
<ul style="list-style-type: none">• Developed and taught project-based and lecture-based architecture and project management courses to college seniors working toward a Bachelor of Architecture degree	
CUNY-iASK BioInspired Cities Initiative	New York, NY & Kőszeg, Hungary
Sustainable Development Project Lead	2018
<ul style="list-style-type: none">• Led trans-disciplinary team for resiliency & regeneration project to generate a sustainable economic renaissance in Kőszeg, a city in Western Hungary experiencing continuous decline• Consolidated and synthesized broad-scope research into a cohesive and implementable strategy for sustainable and regenerative development by leveraging existing resources that were uncovered during extensive research and analysis phase. Phased development strategy was present to the Mayor of Kőszeg and key government leaders• Secured funding to conduct further research, community outreach and feasibility studies for inclusion in several EU grant proposals	
Leone Design Studio	Brooklyn, NY
Owner/Partner & Architect	2004-2018
<ul style="list-style-type: none">• Designed and managed more than twenty architectural and adaptive reuse design/build projects of varying scale and complexity, with a focus on sustainable design• Coordinated multi-stakeholder contracting, permitting and approvals processes in multiple jurisdictions	

- Launched and oversaw the firm's pro-bono portfolio

Gluck+ Architecture

New York, NY

Project Architect & Construction Manager

1999-2004

- Project architect and Construction Manager for numerous high-profile, award winning residential and affordable housing projects in multiple jurisdictions
- Managed staff, contractors, budgets, permitting and execution of projects.
- On-site Construction Manager for two residential projects, including day-to-day management of subcontractors, tradespersons, project finances and contracts

EDUCATION

The City College of New York

New York, NY

Master of Science, Sustainability in the Urban Environment

2018

- Awarded the Latif Jiji Capstone Award for foodWORKs: a community "food-waste-to-food" hub
- Zahn Social Impact Prize finalist for PlanB, an environmental data app for New York City

Yale University

New Haven, CT

Master of Architecture

1998

- Awarded the William Wirt Winchester Traveling Fellowship for highest academic achievement

University of Pennsylvania

Philadelphia, PA

Bachelor of Arts, Environmental Design

1993

- Cum Laude, with a minor in Architectural History

OTHER

Certifications

- Registered Architect in New York State and Pennsylvania
- LEED Green Associate

Key HPD Initiatives:

- [HPD's Design Guidelines for Preservation](#) and [HPD's New Construction Design Guidelines](#)
- [HPD/NYSERDA Retrofit Electrification Pilot](#)
- [HPD/ NYSERDA Future Housing Initiative](#)
- [HPD's Solar Where Feasible Program](#)
- [HPD's 321 Go! Initiative](#) (link pending)
- [Research: The Decarbonization Roadmap for NYC Affordable Housing](#)
- [White Paper: Underwriting High Performance Multifamily Housing](#)
- [Underwriting Standards for Electric and High-Performance Buildings](#)

Conferences and Speaking Engagements (partial list)

- AIA Committee on the Environment, 2024
- Louisville Sustainability Summit 2023, Keynote Speaker
- Greenbuild 2022, San Francisco
- NYBuild, 2023, 2024
- Building Energy New York 2019-2023
- North American Passive House Network Conference 2019, 2021, 2022
- Annual New York State Affordable Housing Conference 2018-2023

JORDAN I. BONOMO | AFFORDABLE HOUSING & SUSTAINABILITY PROFESSIONAL

Brooklyn, NY

Email: jibonomo@gmail.com

Phone: 914-420-3464

Professional Experience

9/2022 – Present

New York City Housing Authority

New York, NY

Senior Program Manager

Sustainability Department, Asset & Capital Management

- Oversee NYCHA's decarbonization efforts to comply with Local Law 97, including creating and managing budgets, overseeing upgrades to developments from inception to completion and managing all stakeholders in the process.
- Provide technical support to NYCHA's Real Estate Development Department, performing design review and consultation on PACT/RAD development work scopes.
- Oversee NYCHA's \$70 million investment in 10,000 units through the [Clean Heat for All](#) program to develop low-cost heat pump retrofit technologies through partnerships with NYSERDA, NYPA and major HVAC manufacturers. Drafted RFP, obtained City and Federal approvals, and managed the pilot installation and all stakeholder engagements with residents and NYCHA Operations staff.
- Oversee NYCHA's \$40 million project to electrify domestic hot water system at 20-building development in Woodside, Queens using prefabricated modular pod system. Coordinate all stakeholder engagement, utility and permit approvals, and NEPA Environmental Assessment.
- Secured \$5 million in grant funding from NYSERDA for various energy and decarbonization programs at NYCHA, including an overhaul of NYCHA's utility management and reporting processes.

8/2017 – 9/2022

New York City Housing Authority

New York, NY

Project Manager

Sustainability Department, Asset & Capital Management

- Managed planning, design, and procurement phases for NYCHA's \$15 million RetrofitNY pilot project to convert a 42-unit NYCHA building to Net Zero-Energy, including all stakeholder engagement, utility service upgrades, and hazmat testing. Secured Mayoral Override for zoning variance to accommodate unique design features. Organized multiple resident engagement events to gather design input from residents and provide project updates at various milestones.
- Managed \$20 million City Cap funded ventilation upgrade project for 70 buildings in East Harlem and worked with NYC OMB and Comptroller's office for scope and funding approval.
- Secured \$500k of grant funding from NYSERDA to pilot NYCHA's first multi-split heat pump system in residential apartments. Managed stakeholder engagement, design, procurement, and construction phases to retrofit seven units in the Bronx to electric heating and cooling.
- Provided retro-commissioning services for NYCHA's campus 2-pipe steam heating systems at Washington Houses, in East Harlem. Managed distribution system overhaul that included full steam trap replacement at 15 buildings and orifice plate installations in over 1,500 DUs. Attended Resident Association Meetings to present the project and key benefits to residents. Project reduced gas utility by 36% and boiler water consumption by 80%.
- Managed NYCHA's Tech pilots and PropTech pilot projects to demonstrate value of various new technology products to improving NYCHA's asset management and operational efficiency.

JORDAN I. BONOMO | AFFORDABLE HOUSING & SUSTAINABILITY PROFESSIONAL

Brooklyn, NY

Email: jibonomo@gmail.com

Phone: 914-420-3464

7/2011 – 8/2017

Northern Manhattan Improvement Corporation

New York, NY

Project Manager (7/2011 – 8/2017)

- Worked with development team on HPD funded rehab projects, including creating budgets, attending project meetings, and managing approvals for closing.
- Managed Enterprise Green Communities and HPD sustainability requirement compliance for two developments in the ANCP program.
- Conducted energy audits for LMI housing in Manhattan through the state weatherization assistance program. Performed utility analysis and energy modeling using eEquip, TREAT, and eQuest software.
- Managed energy and water efficiency construction projects for over 100 residential buildings in Manhattan. Worked with design engineers to provide new heating and hot water systems as well as insulation improvements, lighting upgrades and ventilation upgrades to achieve an average of 23% energy bill reduction per project.
- Prepared bid documents, oversaw competitive bidding process, ensured work conformity with specifications, prepared punch lists, and performed final inspections for HCR approval.
- Secured \$1.3 million in NYSERDA MPP grants for two affordable housing developments in Manhattan.

3/2010 – 7/2011

Power Concepts, L.L.C.

New York, NY

Energy Auditor (3/2010 – 7/2011)

Energy Division

- Conducted energy audits of commercial and multifamily building systems. Gathered and analyzed primary data using temperature loggers, flow hoods, power monitors, flow meters and other instrumentation.
- Provided energy audits and project management for residential buildings in NYSERDA's Multifamily Performance Program to help clients recoup over \$2 million of incentive rebates with average energy savings of 20%.

Education & Credentials

Columbia University New York, NY

M.S., Sustainability Management, 2015

Boston University Boston, MA

B.A. Political Science, 2006

CHRISTOPHER WHITE | NYCHA SUSTAINABILITY

Program Manager, Sustainability Department

PROFESSIONAL EXPERIENCE

2017 – Present **New York City Housing Authority**

New York, NY

Program Manager (6/2022 – Present)

Asset & Capital Management Sustainability, Sustainability Programs

- Provides strategic direction and technical assistance to NYCHA's solar team, which is committed to installing 30 MW of solar PV systems on NYCHA rooftops by 2026. Leads efforts with NYCHA Legal and other departments to draft, negotiate, and execute lease agreements and other supporting material. Has successfully spearheaded execution of over 6 MW of solar installations. Drafted, released, and evaluated a 2023 solicitation for 10 MW of additional solar PV, currently in lease negotiations. Analyzes NYCHA's portfolio for current and future solar feasibility. Collaborates with consultants and sister agencies on City-wide solar development priorities, and represents NYCHA's program at workshops and speaking events. Until 2024, served as day-to-day project manager for NYCHA's solar program and coordinated directly with vendors.
- Supervised two full-time internal consultants working on solar installation and clean energy workforce training.
- In collaboration with external consultants and internal stakeholders, leads effort to study financial and ownership models to pilot installation of public electric vehicle (EV) charging stations at NYCHA parking lots.
- Manages NYCHA's solar plus storage resilience projects, with \$3 million of work at one senior development currently in procurement. Developed solicitations and coordinated work with consultants at the New York Power Authority (NYPA).
- Provides support and technical assistance across a variety of energy efficiency and sustainability initiatives, including grant applications and long-term planning for compliance with Local Law 97 through decarbonization.
- From 2024, coordinates legal and administrative tasks for all NYCHA commercial rooftop leases, including both solar and wireless telecom uses.

Program Associate (8/2017 – 6/2022)

Sustainability Programs Department, Capital Projects Division

- Managed NYCHA's solar program to install 30 MW of solar PV systems on NYCHA rooftops by 2026. Developed solicitations, analyzed NYCHA's portfolio for solar feasibility, coordinated legal negotiations and on-site work with vendors and

CHRISTOPHER WHITE | NYCHA SUSTAINABILITY

Program Manager, Sustainability Department

stakeholders. Developed a scalable model for community solar roof leases at sites with significant legal and operational constraints. Represented NYCHA's solar program at conferences and other speaking events.

- From 2021, supervised one full-time internal consultant focusing on solar and clean energy workforce development programs.
- Supervised a 2021 EDF Fellow report analyzing opportunities for resilience battery storage projects at NYCHA developments and serves as internal consultant on battery storage systems.
- From 2017 to 2018, served as NYCHA point of contact for implementation of ~100 million Green Infrastructure installations at 70+ NYCHA developments. Managed relationships with NYC DEP and NYCHA stakeholders.
- Assisted with the setup, development, and execution of a sustainability training program in 2017-2018 that educated ~500 NYCHA Operations staff in sustainable building practices.

2010 – 2017 **Freelance Writer**

- Wrote questions across a variety of categories for academic trivia competitions held at high schools and colleges across the country, researching and synthesizing information from a wide variety of sources across many topics. Client organizations included National History Bee and Bowl (NHBB) and National Academic Quiz Tournaments, LLC (NAQT), among others.

EDUCATION & CREDENTIALS

University of Pennsylvania Philadelphia, PA
Masters of City and Regional Planning, 2010

University of Pennsylvania Philadelphia, PA
Post-Baccalaureate coursework in economics and statistics, Jan-May 2008

Swarthmore College Swarthmore, PA
B.A., English Literature, 2005

Experience with ArcGIS, Microsoft Office, Adobe Illustrator

MEREDITH CLAIRE McDERMOTT

PROFESSIONAL EXPERIENCE

NEW YORK CITY PUBLIC SCHOOLS: NEW YORK CITY, NY

NOVEMBER 2015-PRESENT

Develop, implement, and lead all energy management and sustainability policies and programs in over 130 million square feet in 1,450 buildings/1,850 schools and across all stakeholder groups including facilities, operations, central/school staff, and students. Public schools are the primary municipal contributor to local sustainability as well as climate policies and goals.

DIRECTOR OF ENERGY & SUSTAINABILITY, OFFICE OF ENERGY & SUSTAINABILITY

April 2023-PRESENT

- Expanded scope of responsibilities to incorporate all Energy Management Team functions to streamline, plan, and align energy and greenhouse gas emissions reductions across the agency as part of Local Law 97 implementation. Directs technical team to prioritize, evaluate, execute, and report strategic decarbonization efforts in alignment with the Department of Citywide Administrative Services (DCAS) Division of Energy Management and Mayor's Office of Climate and Environmental Justice.
 - Retro-commissioning Program (RCx): Coordinate Local Law 87 Energy Audits for Energy Efficiency Reports; prioritize identified Energy Conservation Measures to secure funding, minimize maintenance needs, and track progress.
 - Lighting: Coordinate planning for LED lighting upgrades at 800 facilities in partnership with DCAS and New York Power Authority (NYPA) for Local Law 88 compliance and school building occupant comfort.
 - Accelerated Conservation and Efficiency (ACE) Program: Oversee team to identify capital-eligible energy measures to create scopes of work for funding applications; support project and program management (over \$100M funded to date) to maximize decarbonization and improve buildings.
 - Expenses for Conservation and Efficiency Leadership (ExCEL) Program (up to \$25M/year): identify projects for energy efficiency upgrades such as steam system optimization, controls, and demand control ventilation.
 - Support large-scale electrification planning; direct State-funded decarbonization project planning and scoping.

DIRECTOR OF SUSTAINABILITY, OFFICE OF SUSTAINABILITY

November 2015-April 2023

Facilities & Operations

- Agency lead for establishing climate goals and priorities in contribution to the Mayor's first Climate Strategic Plan to integrate decarbonization measures and sustainability across the organization.
- Support local infrastructure resilience through clean energy projects, energy storage solutions, and demand management:
 - Created the NYC Solar Schools Program, comprising over 80% of the City's total municipal clean energy portfolio to achieve 100 megawatts (MW) of solar by 2025; currently have 89 active installations for 19.7 MW.
 - Oversee the performance, participation, and revenue of over 450 buildings in the Demand Response Program-Electricity as part of a grid infrastructure resilience effort to mitigate risk of blackouts during extreme heat.
 - Implemented a National Grid Gas Demand Response Program in 75 buildings to protect natural gas supply for heating during periods of extreme cold.
 - Integrate sustainability as a component of building readiness, performance, and standard operating procedures.
 - Advance legislation, technical specifications, innovative technologies, feasibility studies, building condition reports, and system performance estimates to inform broader energy strategies and program diversification to include solar + green roof systems, solar canopies, and resilient solar (solar + battery storage).
- Direct agency-wide implementation and compliance with Building Energy Efficiency Ratings (Local Law 33/95).
- Direct work to install/upgrade real-time and advanced metering in partnership with DCAS and energy utility companies.
- Develop annual Agency Heat, Light, and Power budget exceeding \$300 million (>30% of total municipal energy usage).
- Oversee annual energy benchmarking compliance (Local Law 84) for over 4,000 utility accounts.
- Execute the Zero Waste Schools Program to achieve "zero waste" by 2030 across all facilities and operations, including citywide expansion to Curbside Composting services by the end of FY24; co-developed citywide Plastic Free Lunch Days with Office of Food & Nutrition Services leadership.
- Co-developed Agency Energy Strategic Plan.
- Developed and manage the Mayor's Rat Mitigation Zone Program to increase compliance with waste procedures, provide operational and outreach support to school staff, and increase quality of life for nearly 200 schools communities.

Education & Training

- Developed and lead new programs enabled by PlaNYC commitments including Climate Action Days, Climate Institutes, and other programs to elevate school climate efforts and professionalize school climate engagement.
- Lead robust outreach programs across all major stakeholders: professional learning for teachers, student programs, Youth Climate Summits/Career Expos/Youth Leadership Council for Climate, trainings for facilities and food service personnel, collaborative partner network, national school sustainability leadership groups, and executive staff reporting.

- Developed high school workforce development program across skill areas such as solar installations, green building and design, and energy efficiency, including a [Solar Career & Technical Education Program](#).
- Established the first Climate Education Leadership Team, a teacher-led coalition, to move the organization to full and equitable integration of climate education across areas of study and school culture.
- Created Youth Leadership Council for Climate to equitably represent youth voice in policy and programming.
- Developed the Climate + Energy Program with a local nonprofit to offer teacher professional development (see Citations).
- Created a multimillion-dollar annual grant program to support school-based sustainability initiatives and projects while leveraging partnerships with local organizations to accelerate efforts. Include metrics to drive equity, diversity, and inclusion in grant award process to prioritize chronically under-funded public schools (funded via energy programs).
- Manage the [Annual Sustainability Report](#) and online resource portal.
- Oversee annual compliance process and support for over 1,800 school-based Sustainability Coordinators to drive sustainability/climate goals, stewardship, civic engagement, community leadership, innovation, and education.

CITY OF CHICAGO-CHICAGO PUBLIC SCHOOLS: CHICAGO, IL

JUNE 2012-NOVEMBER 2015

SUSTAINABILITY DIRECTOR, SCHOOL FACILITIES

Created all sustainability priorities, programs, contracts, and partnerships for all Chicago Public Schools (660 schools) and oversaw implementation, reporting, planning, and outreach across all school and community-based stakeholders, central staff, senior leadership.

- Developed waste and recycling services contract that changed cost structure to achieve greater control and transparency, integrated sustainability goals, achieved nearly 40% annual cost savings, centralized school expenditures for efficiency, and increased accountability through continuous improvement requirements and data collection.
- Managed full operational transition to a new waste vendor with an equipment fleet exceeding 4,000 dumpsters.
- Implemented the first single-stream recycling program across all schools to increase waste diversion 30% annually.
- Implemented food waste reduction program via onsite composting at more than 55 schools to divert over 30 tons/year.
- Developed, implemented, and secured funding in partnership with community-based organizations and schools for the first school commercial composting pilot program, achieving 89% waste diversion. Created a model to drive awareness, policy, and local infrastructure advancement.
- Directly managed waste/recycling hauler and contract while providing related operational support for building engineers, facility managers, custodians, and administrators.
- Incorporated sustainability goals in construction projects through collaboration with Design/Capital Improvement Program teams, Procurement, and the Law Department.
- Managed sustainability-related aspects of the district's transition from polystyrene food trays to compostable plates.
- Co-founded *Space to Grow: Greening Chicago's Schoolyards Program* to advance green infrastructure.

GEOMORPHIS, LLC: SAN DIEGO, CA

SEPTEMBER 2011-MAY 2012

ENVIRONMENTAL CONSULTANT

Worked to meet the State of California's Renewable Portfolio Standards for the Tehachapi Renewable Transmission Project of Southern California Edison to facilitate clean energy transmission to power the Los Angeles Basin.

- Performed habitat and impact analyses to monitor compliance with environmental regulations.
- Led intergovernmental liaising and public outreach to disseminate critical information to all stakeholders.

SEACAMP SAN DIEGO: SAN DIEGO, CA

JANUARY 2007-DECEMBER 2011

SENIOR PROGRAM MANAGER

Developed and supervised all immersive education programs and staff for Grade 1-University students to connect students to local biodiversity and ecosystems, global issues, and sustainability.

- Implemented hands-on environmental conservation projects and outreach to raise awareness amongst diverse audiences.
- Developed partnerships with local and regional public school districts through program needs assessments, ongoing customer service, program development, and implementation.
- Developed high school workforce development program in partnership with Scripps Institute of Oceanography.

BELLEHAVENS, INC.: PARK CITY & SALT LAKE CITY, UT

AUGUST 2005-DECEMBER 2006

DIRECTOR, ENVIRONMENT & MEMBER RELATIONS

- Developed and implemented company's Environmental Stewardship and Sustainability Plan to instill long-term standards and strategy for energy efficiency, carbon footprint reduction, stewardship, and eco-travel.
- Developed strategy to incorporate environmental program and project information within business development.

- Advised on resort development impacts on environmental resources to investors, executive board, staff, and customers.
- Established Environmental Protection Plans, Assessments, and Environmental Impact Statements within land use maps to promote sustainable patterns of development and tourism.

EDUCATION

MASTER OF SCIENCE-ENVIRONMENTAL MANAGEMENT/SUSTAINABILITY, University of Queensland, Australia

- Dean's Commendation for High Achievement

BACHELOR OF SCIENCE-BIOLOGY & NATURAL RESOURCE MANAGEMENT, University of Illinois Urbana-Champaign

- Extended International Studies: SUSTAINABLE DEVELOPMENT, University of Melbourne, Australia

DISTINCTIONS

- Recipient, President Barack Obama's Lifetime Service Award (Community Vision, 2013)
- Guest Lecturer: Earth Institute, Climate School, and Teachers College, Columbia University (2017-Present)
- Panelist, Presidential Session on Climate Change, American Educational Research Association Conference (2021)
- Co-Author, Journal of Environmental Education Research: *Improving Sustainability Education Policy through Research-Practice Partnerships: Reflections and Analysis from New York City* (2021) (Teachers College, Columbia University)
- Recipient, NYC Deputy Mayor of Operations' Excellence Award (2018)
- Awardee, Coro New York's "Best Partner" for Youth Leadership Academy (2018 & 2019)

PROFESSIONAL NOMINATIONS

- Appointed Agency Lead for Major Eric Adam's first NYC Strategic Climate Plan ([PlaNYC 2023](#))
- Advisory Board: NYC Local Law 97- Climate Mobilization Act Implementation Action Plan
- Co-Chair, Advisory Board: City Parks Foundation
- Advisor: [Action for Climate Empowerment \(ACE\) National Strategy Framework](#) with NOAA Climate Program Office, Climate Literacy & Energy Awareness Network (CLEAN), State governments, and community organizations
- Advisory Member: NYC Mayor's Office of Climate Resiliency's *Resilient Design Guidelines*
- Advisory Board: *OneNYC 2050* Strategy & Implementation Task Force
- Founding Board Member: NYC Nature Goals 2050
- Founding Member: NYC Climate and Resilience Education Task Force
- Advisor and Contributor: WE ACT for Environmental Justice Task Force for Climate Justice Education
- Advisory Member: NYC Mayor's Office of Climate Policy & Programs' Long-Term Energy Planning Committee
- Appointee: Chicago Mayor's Sustainable Chicago Plan Core Implementation Team (2012-2015)
- Education Chair, Board of Directors: Keep Chicago Beautiful (2012-2015)
- Appointee: Governor of Illinois' Sustainability Steering Committee
- Certified by the State of California as a Coastal Resource Planner and Manager

EXTERNAL CITATIONS

BUILDING ENERGY EXCHANGE – CASE STUDY: NYC SOLAR SCHOOLS EDUCATION PROGRAM (2019):

https://be-exchange.org/case_study/nyc-solar-education-program/

GENERATION 180- BRIGHTER FUTURE: A STUDY ON SOLAR IN U.S. SCHOOLS (2020):

<https://generation180.org/new-york-city-preparing-a-clean-energy-generation/>