

Albert Lee

EXPERIENCE

City of Albuquerque, Sustainable Transportation Specialist, Albuquerque, NM (April 2022 - Present)

- Won \$3.9 million in funding from the New Mexico Department of Transportation's Carbon Reduction Program grant, to install 36 new electric vehicle (EV) charging stations throughout the City
- Wrote grant applications for \$9.5 million in funds from the U.S. Department of Transportation's Charging and Fueling Infrastructure and National Electric Vehicle Infrastructure programs
- Managed development of the Affordable Mobility Platform, the City's first EV carshare program, in partnership with the non-profit Forth, to increase access to low-cost EVs by disadvantaged and underserved communities
- Researched and developed EV parking requirements for the City's Integrated Development Ordinance
- Testified at the New Mexico Advanced Clean Cars II, Trucks, and Heavy-Duty Omnibus rulemaking hearings
- Participated in working groups and advisory committees to improve active transportation and transit systems
- Conducted community outreach and educational events for State of the City, Solar Fiesta, Transit Equity Day, Sierra Club E-Bike Fair, and local EV shows

Broward County, Climate Resilience Specialist, Fort Lauderdale, FL (July 2015 - December 2017)

- Wrote the 78-page 2011-2014 Broward County Communitywide Greenhouse Gas (GHG) Inventory, including development of methodology using ICLEI US and GPC global protocols, data acquisition through stakeholder collaboration, analysis using the ICLEI ClearPath system, evaluation of life-cycle energy and consumption-based GHG emissions, and forecasting emissions and reduction scenarios for years 2015-2040
- Organized and led a GHG inventory working group of eight municipalities to educate and advise them in completing a community GHG inventory in compliance with GPC global protocol and Compact of Mayors
- Coordinated quarterly public meetings as staff liaison for the 24-member Broward County Climate Change Task Force, including preparation of agendas, meeting minutes, and communication with members
- Developed a methodology to estimate the countywide rooftop solar photovoltaic (PV) energy generation potential using GIS and research from the National Renewable Energy Laboratory (NREL). Results showed a solar PV generation potential of 12.75 TWh, representing 63.5% of total countywide electricity use in 2014.
- Collaborated with the Florida Department of Transportation to determine the annual countywide vehicle-miles travelled (VMT) using "induced demand" methodology and the Southeast Florida Regional Planning Model (SERPM7). Results showed a daily countywide VMT of 48.3 million miles for model year 2010.
- Developed a GIS map series analyzing seawalls, stormwater infrastructure, and current and future sea level rise flooding for the joint Broward County/U.S. Army Corps of Engineers coastal resilience project
- Supported the Sustainability Stewards of Broward program through GIS mapping and facilitation of stakeholder discussions on solar PV, green infrastructure, urban heat island mitigation, and dark skies policies
- Participated in regional climate resilience planning initiatives involving multi-day community design charrettes and stakeholder workshops on sea level rise adaptation and protection of critical infrastructure
- Assisted with community outreach, educational, and volunteer events for Earth Day, Everglades Day, Water Matters Day, International Coastal Cleanup, and the North Fork Blueway park restoration

University of Michigan, Sustainability and Planning Projects, Ann Arbor, MI (August 2011 - May 2014)

- Collaborated with the New West Willow Neighborhood Association to survey residents, conduct a needs assessment, and develop a strategic action plan to improve neighborhood conditions and opportunities
- Researched the effects of smart growth policies in reducing automobile use, in relation to five land use development patterns: density, diversity, design, destination accessibility, and distance to transit
- Developed an urban forestry implementation plan for climate adaptation in Detroit, MI, using a participatory budgeting model and community charrettes to improve citizen engagement
- Assessed pedestrian and bicycling conditions and suggested infrastructure improvements at two proposed bike-share stations in Ann Arbor, MI
- Analyzed the environmental life-cycle impacts of ethanol fuel production and hardwood materials
- Evaluated the sustainability of high-speed rail vs. air travel in California from a life-cycle perspective

SCS Engineers, Environmental Project Engineer, Downers Grove, IL (August 2008 - July 2010)

- Designed a 10-year phased biogas collection and control plan for the 780-acre Outer Loop Recycling and Disposal Facility in Louisville, Kentucky
- Created site permit plans for a 300-acre biogas system expansion at the DeKalb County Landfill in Illinois
- Developed detailed construction site plans, component design drawings, and technical specifications for seven biogas projects, including multiple gas well, pipeline, blower, and flare installations, and a waste transfer station biogas mitigation system

Shaw Environmental, Inc., Environmental Engineer, Bolingbrook, IL (November 2002 - June 2008)

- Designed biogas collection and control system plans for municipal solid waste (MSW) landfills in eight states, in compliance with the Federal New Source Performance Standards (NSPS) and applicable State regulations
- Developed annual construction plans, construction record drawings, request for proposals (RFPs), and bidding documents for four MSW landfills in Indiana and Michigan
- Supervised three NSPS sampling events, developed sampling protocol, and wrote laboratory evaluation reports
- Prepared Title V Clean Air Act Permit Program (CAAPP) renewal documents and annual air emissions reports for five MSW landfills in Illinois
- Managed construction quality assurance (CQA) of biogas wells, pipelines, and leachate system installations
- Developed an explosive gas monitoring plan (EGMP) for the Warner Hill Landfill in Garfield Heights, Ohio

EDUCATION**University of Michigan - Ann Arbor, MI (GPA: 3.8/4.0)**

- **Master of Science**, Sustainable Systems, Natural Resources, and Environment, May 2014
- **Master of Urban Planning**, Land Use, Environmental, and Transportation Planning, May 2014
- Courses: GIS, sustainable energy and civil infrastructure systems, life-cycle assessment, climate adaptation, sustainable urbanism and architecture, negotiations in environmental dispute resolution, ecosystem services, land use planning and development management, transportation planning and public policy

University of Illinois - Chicago, IL (GPA: 3.8/4.0)

- **Bachelor of Science**, Chemical Engineering, May 2001
- Electives: Air Pollution Control Engineering, Chemistry for Environmental Professionals
- Tau Beta Pi Engineering Honor Society, Illinois Zeta Chapter Secretary, 2000-2001

CERTIFICATIONS AND SKILLS

- EcoDistricts Accredited Professional, February 2020 - Present
- LEED Green Associate, June 2014 - Present
- Engineer Intern (EIT), State of Illinois, June 2002 - Present
- Computer Skills: ArcGIS, AutoCAD Civil 3D, R (stats), eQuest and RETScreen (building energy modeling)

AWARDS

- National Association of County Information Officers (NACIO), 2017 Awards of Excellence
 - Meritorious Award for the Broward County Communitywide Greenhouse Gas Inventory 2011-2014
 - Excellence Award for the Broward.org/climate website
- American Institute of Chemical Engineers (AIChE) Chicago Chapter, Harry McCormack Award for outstanding achievement, May 2001
- UIC Engineering Design Expo, Project Title: *Desulfurization of Catalytic-Cracked Gasoline Using Visible Light*, First Place in the Environmental, Health, and Safety category, April 2001