

JOSEPH K. YONKOSKI, P.E.

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EXPERIENCE

UC DAVIS, UTILITIES

2017 - Present Associate Engineer

Davis, CA

- Biodigester site supervisor responsible for operations and annual budgets
- Utilities engineering representative for major thermal energy infrastructure projects
- Provides engineering support for campus utility systems, including Central Heating and Cooling Plant, Wastewater Treatment Plant, and Biodigester
- Performs economic lifecycle cost analyses for various projects in Utilities
- Oversees chilled water optimization project at Central Heating and Cooling Plant
- Part of team that implemented Meter Verification Program for utility meters on campus
- Utilizes OSIsoft PI software for campus data reporting, monitoring, and tracking

FLUOR CORPORATION

2009 - 2017 Process Engineer

Aliso Viejo, CA

- Designed carbon dioxide capture plants, project values up to \$1 billion
- Performed economic evaluations to identify lowest cost plant configurations
- Estimated costs of equipment, developed indicative plant costs
- Modeled CO₂ capture process in Aspen Plus simulation program
- Process design and scale-up of pumps, heat exchangers and absorption/stripping columns
- Sized equipment and piping, generated P&IDs, heat and mass balances
- Represented Fluor as on-site engineer at a joint venture CO₂ capture plant in Germany for two years
- Commissioned equipment following operating guidelines
- Optimized process parameters to minimize plant utility consumption
- Generated oral and written reports identifying important findings
- Created a cohesive work environment with colleagues from the German firm, built trust with German plant operators
- Developed and implemented two new process systems, reduced plants primary chemical consumption by 75% and waste production by five-fold
- Regular troubleshooting with pumps, compressors, heat exchangers, valves and process instrumentation
- Changed process control tuning parameters to achieve steadier flow and level control

EDUCATION

UNIVERSITY OF MICHIGAN COLLEGE OF ENGINEERING

Fall 2008 Bachelor of Science, Chemical Engineering

Ann Arbor, MI

- GPA: 3.8/4.0
- G. Brymer Williams Scholarship recipient, outstanding merit • Fall '07
- Dean's List • Fall '05 through Fall '08

CERTIFICATIONS AND ACHIEVEMENTS

- Registered Professional Engineer in California, License Number CH6587
- Co-author of six United States Patents