

Charles Simchick, PE, LEED-AP

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Mechanical Engineer / Project Manager with extensive experience leveraging data analysis and engineering principles to identify and implement optimal business solutions. Demonstrated functional agility and ability to influence rational decision-making, and to coordinate effective interactions across all levels of the organization.

Skills & Expertise

data engineering & data science
AWS, Kafka, KSQL, Flask
python, FORTRAN, SQL, bash, git

program & project management
product development
energy efficiency & sustainability

mechanical engineering

Professional Experience

SELECT ENGINEERING SERVICES | West Point, NY; Layton, UT; Seattle, WA

Utility Sustainability Project Manager (2015 - 2018)

- Maintain campus-wide networked energy metering network comprising 148 smart electric meters to monitor 21 MW coincident demand across 130 buildings.
- Conduct interval meter analysis of campus electrical energy profile, identifying potential for 3 MW baseload reduction equivalent to \$1.5M/yr savings with low-cost implementation of behavioral program.
- Develop building submetering network to support energy control algorithms and behavioral management programs.

THE DAYLIGHT SAVINGS COMPANY | Goshen, NY

Senior Energy Engineer (2010 - 2014)

- Manage internal program for energy benchmarking assessments in support of NYC LL84 and NYSERDA Flextech Benchmarking Program. Project portfolio consisted of 14 Msf in 250 commercial, industrial, and multi-family facilities.
- Conduct building systems commissioning/retro-commissioning for US federal government buildings.
- Prepare detailed feasibility studies for co-generation applications, boiler fuel and steam-to-hydronic conversions.
- Develop proprietary software application for analysis and modeling of facility energy consumption profile, including calibration and customized report generation.

OCULUS ENGINEERING SOLUTIONS | New York, NY

Principal Consultant (2009 - 2015)

- Prepare engineering analyses and economic feasibility studies for facility energy reduction projects, including chiller upgrades and combined heat & power.
- Conduct on-site energy audits and building systems retro-commissioning for commercial and institutional facilities.
- Perform utility billing analysis to support commercial tenant energy metering dispute. Identified overcharge of ~\$1M.

Education & Training

MASTERS CERTIFICATE, PROGRAM & PROJECT MANAGEMENT | UC Santa Cruz Extension

MASTER OF SCIENCE, MECHANICAL ENGINEERING | Pennsylvania State University

BACHELOR OF SCIENCE, MECHANICAL ENGINEERING | Pennsylvania State University