

## Education

- **University of Florida** Gainesville, FL  
*B.S. in Mechanical Engineering; Minor in German* May 2016

## Experience

- **Nulite Lighting, Inc.** Denver, CO  
*New Product Development Engineer* October 2018 - Current
  - Led development of several new products from conceptual design, to prototyping and testing, and finally to production and optimization
  - Developed products in coordination with a multidisciplinary team including business, marketing, production, sales, and engineering divisions of the company
  - Leading integration of new electrical systems into existing product lines
  - Responsible for developing and executing test plans to ensure compliance with industry standards, Underwriters' Laboratories specifications and internal standards
  - Developed company standards for new product manufacturing, electrical systems, and product mechanical testing
  - Developed system to accurately project costs of new and existing products, from development through manufacturing
- **University of Florida Office of Sustainability** Gainesville, FL  
*Energy Systems and Mechanical Engineer* March 2017 - October 2018
  - Responsible for originating and analyzing design recommendations for a \$500 million, 40 MW energy infrastructure overhaul to power the University of Florida campus, including improving generation efficiency and adding ability to operate independently of municipal grid
  - Developed, tested, and implemented a micro-environment remote monitoring sensor in campus buildings to enhance comfort and energy efficiency
  - Performed preliminary site selection and design for campus PV systems, including return on investment and grid tie in analysis for arrays up to 1 MW
  - Leading effort to obtain buy-off from University and utility stakeholders to bolster sustainability of cogeneration energy plant and include utility-scale energy storage options
- **Ambient Air Services, Inc.** Starke, FL  
*Mechanical Engineer and Environmental Test Engineer* September 2016 - March 2017
  - Performed emissions testing at manufacturing plants throughout the country to verify emissions compliance and improve production efficiency
  - Progressed from field technician to leading a testing team within four months
  - Developed a MATLAB script to automatically retrieve data from remote emission monitoring sites and produce daily reports, saving up to 120 engineer-hours per year
  - Designed and manufactured automated flow control systems, panels and mounts used in continuous emissions monitoring projects
  - Conducted fault analysis and upgrading of electrical, chemical and mechanical systems of a variety of gas analyzers

## Technical Skills

**Languages:** MATLAB, C++, LabVIEW, JavaScript, L<sup>A</sup>T<sub>E</sub>X, Python

**Software:** SolidWorks, NX, AutoCAD, Autodesk Simulation, Creo, AutoCAD, NASTRAN, Revit, MS Office, HelioScope

**Machine experience:** Experience with lathes, milling machines, fabrication, additive manufacturing