



Brian McGrath

Energy Engineer

Brian is an Energy Engineer with a Bachelor of Science in Electronic Engineering Technology. He is experienced in energy audits and energy efficiency programs and has performed many onsite inspections for various buildings, including commercial, industrial, and institutional.

EDUCATION

New Jersey Institute of Technology

Bachelor of Science in Electronic Engineering Technology 2020

RELEVANT EXPERIENCE

- Performed onsite inspections to verify proper installation and quality of energy-efficient products in commercial, industrial, and institutional sites
- Designed and built a calculator for energy efficiency programs to streamline the documentation, savings calculations, and implementation of energy-efficient products
- QAQC the JCP&L energy efficiency calculator and all iterations
- Managed and contributed to the workflow of 30+ contractors through the SMART platform
- Supported Trade Allies and Customers to facilitate the seamless progression of projects through the SMART platform
- Conducted field audits of existing lighting systems for commercial, industrial, and institutional sites in locations ranging from north to central New Jersey
- Drafted floor plans of sites to document fixtures in each space to allow for time-effective installation of new lighting fixtures
- Prepared reports containing lighting, HVAC, and refrigeration upgrades to present to customers that prioritize energy cost savings
- Researched sensors, actuators, brackets, controllers, and wire adapters for high-level control of prototype prosthetic leg technology
- Implemented PID algorithms and gathering preliminary data with actuators and sensors
- Designed and programmed a prototype smart light home system over four months as part of a team of three

CERTIFICATIONS AND SKILLS

Skills:

- Software:
 - Microsoft Office Suite, AutoCAD, C++, Quartus VHDL, Visual Basic, Python
- Certifications:
 - Occupational Safety and Health Administration (OSHA)
 - 10-Hour OSHA Outreach Training for General Industry



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