Application Engineering
Electro-Matic Products

08/2019 – 03/2020
Farmington Hills, MI

- Assisted customers with commissioning Siemens Programmable Logic Controllers and Variable Frequency Drives.
- Programmed, commissioned, and fielded support calls for a variety of electrical automation equiptment distributed by Electro-Matic.
- Generated customer quotes for PLCs, VFDs, I/O modules, Servos, Industrial controllers, and automation software.
- Utilized Siemens Totally Integrated Automation Portal to develope application specific software for PLCs and VFDs.
- Troubleshot technical problems that occurred for customers using Siemens and Festo automation products and software.
- Visited customers across the United States to solve technical programs regarding Siemens Automation products.

Engineering Technical Consultant Co-op
McNaughton-McKay

07/2017 – 04/2019
Madison Heights, MI

- Fielded engineering related technical support calls from local machine builders, tier suppliers, and manufacturers daily.
- Programmed and troubleshot Allen Bradley programmable logic controllers and variable frequency drives.
- Generated PLC, VFD, Servo, Industrial controllers, and automation software quotes for customers.
- Visited local automation customers onsite to solve technical programs regarding Rockwell Automation products.

Education

Kettering University
Mechanical Engineering - BSME

07/2015 – 06/2019
Flint, MI

Undergraduate Thesis

Kettering University, 2019

During my 2-year cooperative work experience at McNaughton McKay and studies at Kettering University, I documented the advantages and disadvantages of the MagneMotion Intelligent conveyor solution created by Rockwell Automation compared to a belt driven conveyor. In addition, the thesis paper contains a step by step guide on how to commision and program an Allen Bradley CompactLogix PLC, Panelview, Sensopart smart camera, collaborative Universal Robot, and MagneMotion intelligent conveyor communicating over Industrial Ethernet/IP. The application simulated a conveyor line in a manufacturing facility.

Skills

Languages: Python, Javascript, Solidity.

Frameworks: Django, NodeJS, VueJS

Tools: Hardhat, Nginx, Git, Docker, Express, Axios, DigitalOcean, Web3JS, EthersJS, Linux

Databases: MongoDB, PostgreSQL, MySQL, Siemens PLC DataBlocks

Soft skills: Outgoing in person and over the phone, an excellent teamplayer, passionate drive, persistant, enthusiastic about learning, overcoming failure, team-oriented, excellent communcation skills, project management, hardworking, and passionate about helping others succeed.

Volunteering & Events

- Ethereum Denver 2022
- Founder of The Bitcoin Club at Kettering University
- Siemens Sinumerik CNC Training 09/2021
- Profinet Certification
- TeamGM Cares Volunteer Environmental Cleanup
- Making Strides Against Breast Cancer
- Kettering Merit, Scholarship.

Portfolio

Personal Portfolio

Github

Stackoverflow