

Samuel K. Effa

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Education

Michigan State University: East Lansing, MI

Aug. 2015 - May 2019

- College of Engineering; College of Agriculture and Natural Resources, Honors College
- Bachelor of Science; Biosystems and Agricultural Engineering
- GPA 3.93/4.00

Development Tools

- HTML, CSS, Javascript (ES6), React, Python, SQL, Git, Express, Linux, VSCode

Work Experience

Systems Support and Product Design Engineer: Techmark Inc., 15400 S. US27 Lansing, MI 48906

May 2019 - Present

- Lead software support for the remote monitoring system to improve customer experience
- Collaborated with programmers on bi-weekly sprint meetings to review and plan software development
- Wrote scripts in Python to automate data processing and speed up workflows
- Built a MODBUS API for a refrigeration controller in Python to integrate into the remote monitoring system
- Maintained a legacy ColdFusion codebase to fix bugs and add new features
- Designed crop storage ventilation systems and mushroom growing chambers using CAD, Excel, and CFD modeling
- Leveraged Trello to manage dozens of concurrent projects at various stages of completion
- Created technical documentation for the remote monitoring system to enhance customer experience
- Designed and implemented an information management system for the company using Canon Therefore

Technical and Research Assistant: Michigan State University

May 2018 - May 2019

- Designed and constructed a solar powered autonomous irrigation system
- Collected and analyzed weather data sets to predict irrigation schedules
- Troubleshoot basic electrical panel problems with digital multimeters
- Constructed solar-powered weather stations with sensors, data loggers, cell-modems, and battery banks

Civil Engineer Intern: Abonmarche, 95 West Main St., Benton Harbor, MI 49022

May 2017 - August 2017

- Coordinated with a team of 3-6 tradesmen to follow MDOT standards for water, sewer and road construction.
- Reported progress to CAD engineers with as-built drawings and progress reports
- Measured concrete properties to follow MDOT standards

Other Skills

- Microsoft Office, Google Suite, Zoom/Microsoft Teams/Google Meet, Trello, Notion, AutoCAD, electrical wiring, prototyping, SOP creation