

# 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, React, Python, SQL, git, express

## Work Experience

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

May 2019 - Present

- Lead software support for our remote monitoring system
- Collaborated with programmers on bi-weekly sprint meetings to review and plan software development
- Wrote scripts to automate data processing using python
- Built a MODBUS api for a refrigeration controller in python
- Maintained a legacy cold fusion codebase
- Created CAD drawings of crop storage ventilation systems and mushroom growing chambers
- Designed and quoted projects to customers
- Communicated directly with technicians to complete project
- Troubleshoot complex control systems
- Created technical documentation for our software control system
- 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
- Built weather stations around Michigan

**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 engineering drawings and standards
- Reported progress to CAD engineers
- Measured concrete properties to follow standards

## Other Skills

- Microsoft office, google suit, video conferencing, spreadsheets, AutoCAD, electrical wiring, prototyping