BERNARD OWUSU SEFAH

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EDUCATION

The University of Toledo, Toledo, Ohio   Anticipated Graduation Date: December 2021

Bachelor of Science in Computer Science and Engineering, GPA 3.189

Honors and Awards: Dean's List in Spring 2020, Fall 2020 and Academic Scholarship Recipient Fall 2017-Present

COURSEWORK

Object Oriented Programming | Linear & Non-Linear Data Structures | Fundament Cybersecurity| Machine Learning(ML) | Embedded System| Software Engineering | Theory of Computation| Digital Logic Design | Embedded Systems using C

COMPUTER & TECHNICAL SKILLS

Software: Java| C++| Python (ML) | C#|C | Linux |CSS |HTML | .Net | P-spice | WinlogiLab(Logic Gates)| AutoCAD| Microsoft Office| SolidWorks| Adobe Premier| VHDL(Basic)

Technical: Computer Hardware| Soldering| Oscilloscope/Multimeters| Virus Removal| Installing OS

EXPERIENCE

Academic Industry Immersion Seminar | Toledo, Ohio   June 2020 - August 2020

Alternative Co-op Course Due to COVID-19

- Worked on a case study group to develop solutions for a M220 EDL carrier about an issue leading to safety issues for the operator.
- Lead a team to recommend and execute safety solutions to the several safety incidents being recorded.
- Completed an online certification via Lynda/LinkedIn to broaden and improve on software skills.

Systems Integrator: Palmer Conservation Consulting (PCC)| Columbus, Ohio   May 2019 - August 2019

Responsibilities:

- Commissioned a Jace 8000 and an Fx80 Jace. This was to ensure that all mapped points on the jace run without any errors.
- Applied basic embedded concepts to download and run logic programs onto VAV(Variable Air Volume) boxes.
- Programmed BACnet Mstp Controller using FX-PCT for HVAC devices. The outcome of programming BACnet was to ensure it controls heating pumps, boilers, and smaller air handler units in a building.
- Monitor building chillers and boilers. This was to ensure that the boilers and chillers stayed in the correct set point given.

Security Systems Technician: Alder Home Security | Orem, Utah   May 2021 - August 2021

Responsibilities:

- Constructed circuit design, developed embedded systems, and establish wireless communication networks for over 100 household.
- Lead other technicians to efficiently plan out each household wiring set up and troubleshoot any potential design flaws.
- Wrote a technical documentation/reports on every household for future technicians to use.

Teacher's Assistant: University of Toledo | Toledo, Ohio   January 2020 - May 2020

Responsibilities

- Instructed students to learn about Intro to Java
- Lead and mentored students to ensure they stayed in the course and ensured each student was ready for future courses through grading and feedback

PERSONAL PROJECTS

Airplane Reservation System

- Developed a flight booking system tool with C# and .Net in Visual Studio to produce an app for the system.
- Used DB Browser(SQLite) to access customer's data and made sure all information was saved correctly in the database.

Noise Generator

- Developed and designed hardware components using Arduino C++ to build a reactive noise generator.

COLLEGIATE ACTIVITIES

Formula Society of Automotive Engineers Rocket Motorsports (FSAE), *Club Member*   Fall 2018 - Spring 2019

Institute of Electrical and Electronics Engineers (IEEE) *Club Member*   Fall 2019 - Spring 2020