



CALEB SYLER, BS

ELECTRICAL ENGINEER

P +1 513.818.6755

E syler3.1999@outlook.com

A 1635 Thistle Court,
Mansfield, Ohio, 44907

W CalebSyler.com

OBJECTIVE

Entry-level engineering position in a collaborative environment with opportunity to continue to learn and grow in my field.

ENGINEERING WORK EXPERIENCE

Summer Research Assistant

Mt. Vernon Nazarene University, Mount Vernon, OH
May 2022 to July 2022

- Researched subjects of near field communication (NFC) Technology and components including inertial measurement units (IMUs) and programmable microcontrollers
- Programmed using Keil IDE and STM32CUBE IDE, which both use C++ language
- Transferred raw data using NFC
- Used a low powered IMU to read off 6-axis motion
- Prepared a system to correlate the motion of the eyeball and brain to quantify data for concussions

Engineering Intern

DECA Manufacturing-Lexington, OH
May 2021 to August 2021

- Decipher schematics and diagrams of wire harnesses.
- Prototype a harness to IPC/WHMA A-620D standards from raw materials.
- Research manufacturer specifications for a part
- Use an ultrasonic welder for splicing wires
- Use a press and hand tools for crimping terminals on wires
- Utilize Microsoft Excel spreadsheets for statistical data input
- Help set up and program jobs for Schleuniger Crimp Center
- Delivered successful production sample of a Corvette harness

EDUCATION

Mount Vernon Nazarene University - Mt. Vernon, Ohio

Bachelor of Science, 2024

GPA: 2.917

Major: Electrical Engineering

Minor: Mathematics and Physics

ABET: Accredited.

Coursework included Chemistry I and II, Analog Electronics, Digital Systems, Thermodynamics, Electromagnetic Theory, Optics, and Differential Equations.

KEY SKILLS

- AUTOCAD
- MATLAB
- ELECTRICAL ENGINEERING
- PROGRAMMABLE LOGIC CONTROLLERS
- C/C++ (STM32Cube IDE and Keil uVision5)
- DRAFTING
- JavaScript (NetBeans IDE)
- Autodesk Inventor
- Autodesk EAGLE CAD
- LTSpice
- PASCO Capstone
- RESEARCH & DEVELOPMENT
- ASSEMBLY
- MECHANICAL KNOWLEDGE

OTHER WORK EXPERIENCE

(Concurrent with Studies):

ADECCO Temp Agency-Mount Vernon, OH

May 2024

Kroger ClickList

Kroger-Mount Vernon, OH

May 2022 to January 2023

Loader

Rural King-Mount Vernon, OH

September 2020 to May 2021

Maintenance Crew Member

Spherion/Fed-X-Ashland, OH

June 2019 to August 2019

Skills learned in these jobs include collaboration as part of a team, following a routine schedule, reporting data using Microsoft Excel, customer service and support, accurate measurement, and correct power tool usage.

ENGINEERING PROJECTS

- UAV with NIR Scanner for Agricultural Surveillance
- Embedded Concussion Sensor with integrated IMU and NFC
- Team Captain and Chief programmer of VEX Robotics Team in High School

COMPUTER PROGRAM PROFICIENCIES

- MATLAB
- C/C++ (STM32Cube IDE and Keil uVision5)
- JavaScript (NetBeans IDE)
- Autodesk Inventor
- Autodesk EAGLE CAD
- LTSpice
- PASCO Capstone

REFERENCES

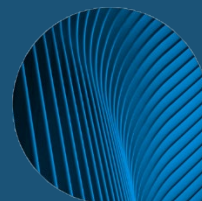
Available upon request

AWARDS

- FIRST TRUMPET, XXX BAND
- TRUMPET SCHOLARSHIP

OTHER INTERESTS

- Playing the trumpet
- Composing Music
- Continued Learning and Research



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