
Education

Elizabethtown College | Bachelor of Science | Elizabethtown, Pa | 2020

- Majors: Computer Engineering and Computer Science.
- Honors: Presidential Scholar.

Relevant Course Work

- Engineering: Calculus I, II, III. Differential Equations. Physics I, II. Circuit Analysis. Introduction to Engineering I, II.
- Computing: Computer Science I, II. Computer Architecture and Organization. Systems Programming. Advanced Computer Engineering. Microcomputer Architecture.

Experience

Software Developer/ IT Technician | Elizabethtown College | Elizabethtown, Pa | Since February 2017

- Development in VBA for a excel datasheet getting information from the web for the digital signage on campus.
- Management of all digital signage on campus.
- Filming and editing video (Premiere Pro) of events around campus and for departmental needs.

Software Developer | Clair Global (Clair Data Systems)| Litiz, Pa | May 2017 – August 2017

- Temporary Software Developer for Clair Global creating on the spot software for company needs.
- Projects included: Switch auto-configurator, Interactive panel monitoring networking racks, and VPN data collector.

IT Technician + Network Engineering | Coventry Christian Schools | Pottstown, Pa| 2014-2016

- Providing for numerous technical needs around the school.
- Re-building school networking system replacing old system, with new up to date mesh networking for total Wi-Fi coverage with modern speeds.

Retail | United Parcel Service | Trappe, Pa | 2016-2017
Team Member | Chick-Fil-A | Audubon, Pa | 2015-2016

Projects

PerfMon | Clair Global

A **Performance Monitor** made for Clair Global to easily monitor the status of a production rack out on a production and send back telemetry data. Primarily written in Node.js to run seamlessly on a Raspberry Pi. Created with a team of 2 people with a full fledged front end and back end.

Electric Vehicle | Freshman Project

Participated in the research, design, and fabrication of an electric vehicle that would later be benchmarked against my fellow cohort. Performed the duty of team programmer and created custom software for our car that greatly increased the car's performance and longevity

HomeLab | Personal Project

A continuing project in learning more about networking, systems administration, and servers, I have been working on a home networking setup affectionately named JuiceNet. This setup currently includes a self-refurbished HP DL180 G6 enterprise server, a Linksys LGS124 Switch, and a few Raspberry Pi's. It currently holds much of my data, a personal webserver, a media server, private git source, VM tester, a good web development platform and much more.

USB-C Expresscard Expansion | Personal Project

A work in progress expresscard expansion that will support the modern USB-C form factor on the obsolete expresscard protocol. Many older machines are still perfectly useable, and this will help bring older machines, like the one I use, into a modern machine.

Skills & Abilities

Technology | Engineering

- Languages: Python, Java, Javascript, HTML, CSS, MATLAB, Bash, C++, C#, C, Go, VBA.
- Software: Word, Excel, Inventor, Photoshop, InDesign, Premiere Pro, After Effects.
- Miscellaneous: Network troubleshooting, Linux, Windows, MacOS, Android, and iOS. System Administration (On both Linux and Windows Server), Graphic Design, Video Editing, Hardware Expertise, Web Design.