
Education

Elizabethtown College | Bachelor of Science | Elizabethtown, Pa

3.41 GPA | 2020

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

Relevant Course Work

- **Engineering:** Calculus and Differential Equations. Circuit Analysis. Electronics. Advanced Computer Engineering. Digital Design and Interfacing. Microcomputer Architecture. Computer Organization and Architecture.
- **Computing:** Computer Science I, II. Data Structures. Database Systems. Systems Programming. Compiler Design. Software Engineering.

Experience

Software Engineer at Lockheed Martin | King of Prussia, Pa

May 2018 – Present

- Working primarily with Software Defined Radios and Java application development
- Created a scalable platform on which C++ based GNURadio flowgraphs can be deployed easily and quickly. Worked on a large scale operations platform for remote assets.
- Working on a team of developers, using enterprise grade tools and platforms

Computer Engineering TA at Elizabethtown College | Elizabethtown, PA

May 2018 – Present

Computer Organization and Architecture, Microcomputer Architecture, Digital Design, Advanced Computer Engineering.

- Working with professor to create new teaching material and lab projects. Primarily with: FPGA's, physical and simulated circuits, microcontrollers, mini PC boards like the Raspberry Pi.
- Creating documentation for devices such as 8051 microcontrollers, Xilinx FPGA's.

IT Technician & Developer at Elizabethtown College | Elizabethtown, Pa

February 2017 – May 2018

- Management of all digital signage on campus, on the backend and frontend.
- Software development needs for signage and other display systems.
- Video editing for school and departmental needs.

Software Developer at Clair Global (Clair Data Systems) | Lititz, Pa

May 2017 – August 2017

- Intern 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.

Network Engineering / IT at Coventry Christian School | Pottstown, Pa

2015-2016

Technical Production Director at Fairview Village Church | Eagleville, Pa

2014-2016

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. It went on tour with a major group shortly after.

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 3 Dell PowerEdge 2970's and an HPE DL180. The entire setup runs VMWare ESXi. It currently holds most of my data, a personal webserver, a media server, private git source, VM Testers, a good web development platform, and much more

Skills, Abilities, Other Information

- **Languages:** C, C++, C#, .NET, Bash, Python, VBA, Java, Javascript, Go, Swift, MySQL, HTML/CSS, MATLAB
- **Software:** Word, Excel, Inventor, Adobe Suite, General IDEs, Git, Version One, Visual Studio, Gradle, Maven,
- **Misc. Technology:** Network troubleshooting, Linux, Windows, MacOS, Android, and iOS. System Administration (On both Linux and Windows Server), Graphic Design, Video Editing, Hardware Expertise, Web Design, Embedded Systems, Unit Testing, CI/CD, Agile.

Secret Level Department of Defense Security Clearance