EDUCATION

B.S. Computer Science Seton Hill University

SUMMARY OF ROLES

- **Software Engineer:** Developing, deploying, and testing embedded RTOS software, Windows desktop software, iOS mobile applications, and cross-platform web applications.
- **Technical Lead:** Scoped and planned projects using both agile and waterfall, maintained documentation (SRS, SDS, SBOM, etc.), and frequently interfaced with both management and clients.
- Engineering Recruiter: Represented a company at multiple career fairs and conducted technical interviews.

TECHNICAL SKILLS

Programming Languages: C++, C#, C, Python, Swift, Javascript, PHP, Bash, Powershell

Tools: Git, Tortoise SVN, Azure, TFS, DevOps, Visual Studio, VSS, WSL, Jira, GCC, CMake, Uboot, Bitbake, SSH, Win32 Disk Imager, PSOC, Tera Term, iTerm, .NET, React, Qt, Jenkins, Docker, VirtualBox, Vercel, SQLite

PROFESSIONAL EXPERIENCE

Radar Software Engineer at C Speed [March 2025 - Current]

- Light Wave Radar: C and C++ development for a RTOS
 - Creating a SQLite database interface which receives, organizes and stores high frequency data streams from multiple sources.
 - Adding a TCP socket communication layer to multiple applications enabling bidirectional communication between multiple machines on a LAN
 - Oevelopment of test server **powershell** scripts used to run data processing software in a vacuum and check output using binary comparisons. Automated this process using **Gitlab pipelines**.
- Web-based Air Situation Display: Javascript development using React
 - Parse ASTERIX messages to extract multiple categories of plot data and play back hours of radar,
 ADS-B, and tracker recordings in real time
 - Integrated DeckGL, a React library which utilizes GPU hardware to maximize performance in web apps that demand fast real time graphics

Design Services Software Engineer at C Speed [June 2023 - March 2025]

- Patient Monitor Medical Device: C and C++ development for a Yocto embedded OS
 - Linux kernel development including removal/modification of various drivers, creation of udev rules, and adjusting kernel configs
 - Application UI overhaul using C++ with Qt graphical framework adhering to FDA usability requirements and UI/UX design standards provided by the client
 - Development of an automated bitbake build process running on an Azure cloud Ubuntu VM using Jenkins continuous integration
- Medical Device Service Tool: C# development using .NET framework
 - Development of a WPF desktop application which interfaces with medical devices via USB connection
 - Implementation of software security features such as dynamic AES encryption, password complexity policies, and automatic timeout/logout
 - o Development of a unit test suite for the core application in Visual Studio

Student Programmer at Seton Hill University [June 2022 - June 2023]

- SHIP Student/Faculty Portal: Migration of a PHP web app from Symfony to Laravel framework
 - Migration of various student and faculty facing features using **PHP** with Laravel/Filament to query and present data from a **MySQL** database