Steven Zilberberg

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Objective

Motivated and passionate engineer seeking a position in computer/hardware engineering. I am able to maintain and add features to existing products as well as start a project from conception and bringing it to fruition while also focusing on documentation and traceability. I strive to design and create long term solutions to complex problems and systems.

Technical Skills

Programming

Languages:	C#, VB/VB.NET, C/C++, Python, Java, SQL, Swift
Web:	HTML, CSS, Javascript, Node, Angular, React
Structures:	JSON, XML, CSV
Tools:	JIRA, Bitbucket, Bamboo, Jenkins, Git, AWS, Nuget
Utilities:	Visual Studio, VS Code, WinMerge, Wireshark, Postman
Protocols:	RS-232, Telnet, SSH, UDP/TCP Ethernet, ARINC-429, MIL-Chapter10, MIL-1588

Operating Systems

Windows MacOS Linux (Ubuntu/Rasbian)

Professional Experience

- **Susquehanna International Group**, *Senior Software Engineer*, Bala Cynwyd, PA (May 2023 - Present)
  - Work in a team of 7 developers to maintain multiple software tools to ensure federal compliance regulations
  - Assist in developing utilities to provide function for complex, multi-input software systems
  - Collaborate and help maintain a software system which handles the processing of ~3 billion transactions per day
- **Curtiss-Wright (Teletronics Technology Corporation)**, *Senior Software Engineer & Mobile Developer*, Newtown, PA (Jan 2014 - April 2023)
  - Lead Engineer for government funded Air Plane Control Panel; required collaboration with multiple departments to design, build, test, and delivery. Completed using C/C++ and C#
    - Successfully used on multiple Navy Aircraft
    - Added to the company's main product catalog offerings
  - Implemented several proprietary and non-proprietary Ethernet UDP/TCP protocols including Pulse Coded Modulation data which was ethernet packet fragmentation capable
  - Created and implemented a unified file structure with compliance for apps across multiple platforms using C# and a XML File Structure
    - This allowed "add once, use everywhere" architecture for a 4 customer facing applications
  - Conducted several customer facing quality control and testing along with documentation and inter-departmental procedure changes.
    - This increased customer satisfaction and reduced future engineering testing time and frequency, substantially
    - Used Microsoft Word for procedure documentation, Markdown text files for code documentation, and Balsamiq for UML and GUI Mockups
  - Migrated, implemented, and maintained new systems and procedures to use JIRA, Bitbucket, Bamboo, and Confluence to improve code quality, tracking and overall documentation.
    - This saved more than 1000 man hours per year and improved transparency and tracking of engineering efforts
    - Included creating Python and Windows Batch scripts for automation tasks and building
  - Extracted redundant code and implemented libraries across multiple applications to support hardware communication, proprietary and open standard file formats, and general utilities. Primarily done in C#
    - This provided the ability to create a structure on which to build new applications quickly with tested and proven code and reduced the potential for mistakes between applications
  - Worked on an HD Camera utilizing ethernet configuration and streaming protocols using C# and VB.NET along with a REST protocol and a JSON structure
    - Contracted and utilized by NASA in the Artemis 1 space launch
  - Created Wireshark LUA plugins for debugging proprietary formats of network data

Education

- The College of New Jersey, Ewing, NJ, December 2013
  Bachelor of Science, Computer Engineering

Personal Experience

- Constantly learning and practicing electronic design
  - Designed a half dozen of independent PCBs
- Completed Harvard CS50; final project utilizes Python's Flask framework, API calls to a Phillips Hue Bridge