Jeffrey R. Rimko

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Summary

Computer engineer generalist with experience in software development, hardware design, data analysis, and automated testing. Experience working remotely and internationally on a wide variety of projects.

Technical Competencies

Web Software *– 6 years – C#/JavaScript/PHP/Python Languages, ASP/Flask/Vue Frameworks, Docker*
 • Full stack development of distributed web applications using various technologies.
 • Deployment to AWS EC2/Lambda/Fargate, Heroku, and traditional on-premise servers.

Desktop Software *– 8 years – C#/C++/JavaScript/Python Languages, Electron/Qt/Unity Frameworks*
 • Development of GUI applications, CLI utilities, and background processes for applications such as vehicle dynamics simulators, productivity tools, and video games.

Embedded Systems Software *– 11 years – C/C++ Languages, Altera/Atmel/Microchip Platforms*
 • Development of software on various platforms for applications such as vehicle control systems and life safety equipment.
 • Development of platform-level code such as BSPs, bootloaders, and FPGA firmware.

Data Analysis *– 4 years – PostgreSQL/SQLite/SQL Server Databases, Jupyter-Python-Pandas Toolchain*
 • Development of solutions to produce reports and visualizations from large data sets.

Hardware Design *– 5 years – Altium/KiCad Applications*
 • Design of circuity and PCBs for applications such as production testing and home automation.
 • Design and execution of silicon validation and qualification testing.

Automated Testing *– 10 years – C/C#/Python Languages*
 • Design of automated/scriptable hardware and software test systems to aid development and production.

Technical Writing *– 10 years – AsciiDoc/LaTeX Formats*
 • Design of flexible document systems allowing for easy conversion between various formats.

Work History

Software Engineer – Autosoft DMS *– West Middlesex, PA – August 2017 to Present*
 • Development of scalable third-party integration solutions for desktop and web based client software.
 • Development of in-house utilities to aid new developer setup and automate environment health checks.

Senior Design Engineer – Microchip Technology *– Hermitage, PA – June 2014 to August 2017*
 • Lead developer of project to update existing silicon qualification test system to improve capabilities and throughput. Developed Python-based scripting interface to test equipment to allow for flexible and expressive automated test cases used during qualification.
 • Lead developer of qualification data review and management pipeline used to parse results for report generation and data visualization.

Software Engineer – Ansaldo STS *– Pittsburgh, PA – November 2008 to June 2014*
 • Lead developer of automatic train operation software implemented on custom hardware. Coordinated with other team leads to integrate various software subsystems. Field tested software on vehicles.
 • Lead developer of subsystem communication technology. Toolchain included cross-language compiler for custom IDL allowing for easy and efficient communication between subsystems.
 • Developed various in-house software tools for simulation, automated testing, and diagnosis.

Project Engineer – Grace Industries *– Fredonia, PA – August 2006 to November 2008*
 • Developed life safety devices used by firefighters as well as other general-purpose safety and security equipment. Followed several products through entire development process, from initial prototypes to final production. Worked on hardware, software, and mechanical enclosures.
 • Designed in-house test hardware to aid with production testing and manufacturing.

Education

Pennsylvania State University *– Erie, PA*
Bachelor of Science in Computer Engineering, graduated May 2006.