

Jeffrey R. Rimko

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SUMMARY

Computer engineer with experience in software development, hardware design, data analysis, and automated testing. Background in safety-critical applications. Experience working internationally on customer-facing projects.

TECHNICAL COMPETENCIES

EMBEDDED SYSTEM 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.

DESKTOP SOFTWARE – 6 YEARS – C++/C#/JAVASCRIPT/PYTHON LANGUAGES, ELECTRON/QT/UNITY FRAMEWORKS

- Development of GUI applications, CLI tools, and background processes for applications such as vehicle dynamics simulators, productivity tools, and video games.

WEB SOFTWARE – 4 YEARS – JAVASCRIPT/PHP/PYTHON LANGUAGES, FLASK/VUE FRAMEWORKS

- Development of front-end and back-end code for basic web applications targeting various stacks.

DATA ANALYSIS – 3 YEARS – POSTGRESQL/SQLITE DATABASES, JUPYTER-PYTHON-PANDAS TOOLCHAIN

- Development of solutions to produce reports and visualizations from large data sets.

HARDWARE DESIGN – 4 YEARS – ALTIUM/KICAD APPLICATIONS

- Design of circuitry and PCBs for applications such as production testing and home automation.
- Design and execution of silicon validation and qualification testing.

AUTOMATED TESTING – 8 YEARS – C/PYTHON LANGUAGES

- Design of automated/scriptable hardware and software test systems to aid development and production.

TECHNICAL WRITING – 8 YEARS – ASCIIDOC/LATEX FORMATS

- Design of flexible document systems allowing for easy conversion between various formats.

WORK HISTORY

SOFTWARE DEVELOPER – AUTOSOFT DMS – WEST MIDDLESEX, PA – AUGUST 2017 TO PRESENT

- Development of third-party integration software.

SENIOR DESIGN ENGINEER – MICROCHIP TECHNOLOGY – HERMITAGE, PA – JUNE 2014 TO AUGUST 2017

- Lead initiative to update existing automated test system to improve capabilities and throughput. Developed Python-based scripting interface to test equipment to allow for flexible and expressive automated test cases.
- Developed various in-house tools for data processing and management. Tools were used to parse test results to aid report generation and data visualization.

SOFTWARE ENGINEER – ANSALDO STS – PITTSBURGH, PA – NOVEMBER 2008 TO JUNE 2014

- Lead developer of automatic train operation software. Coordinated with other team leads to integrate various software subsystems.
- Lead architect of subsystem communication technology. Toolchain included cross-language compiler for custom IDL allowing for easy/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.
- 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.