Devin Patrick Gaughan

Senior Software Engineer | Embedded Software | Hardware–Software Integration

Vancouver, Washington, United States

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SUMMARY

Software Engineer with 10+ years in the semiconductor industry, specializing in embedded firmware, Python automation, and hardware validation. Former Intel engineer with a strong foundation in component-level debugging and full-cycle R&D product validation.

TECHNICAL SKILLS

Languages: Python (Automation/PyTest), C/C++, Bash, Assembly, MATLAB
Embedded & Hardware: Firmware Validation, Board Bring-up, I2C, SPI, UART, PCIe, JTAG, ARM Cortex, RTOS
Tools & Platforms: Linux (Kernel/Drivers), Git, Docker, Jenkins (CI/CD), Oscilloscopes, Logic Analyzers

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EXPERIENCE

Intel Corporation – Hillsboro, OR
Senior Software Engineer (Software/Firmware) | 2018–2024

Developed **Python** test automation frameworks to validate firmware on pre-production R&D silicon. Led root cause analysis of system failures using **logic analyzers**, oscillators, and kernel debugging. Collaborated with hardware architects to optimize **hardware–software integration** and device drivers.

Hewlett-Packard – Vancouver, WA
Firmware Technician | 2014–2018

Performed firmware QA and integration testing for enterprise printers and imaging systems.

EDUCATION

Oregon State University
Master of Science in Applied Computer Science | *Expected 2027*
Bachelor of Science in Computer Science

- *Honors:* **Accelerated Master's Platform (AMP), GPA: 4.0/4.0**