

Andrew Bond

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OBJECTIVE

I'm seeking a team-oriented position developing rock solid applications in all programming languages. I love writing useful libraries, learning new things, and communicating that knowledge with others.

SKILLS

Languages: C/C++, Python, Javascript, Bash/Posix Shell, SQL, Rust, Javascript, Go
Software: Git, Yocto, Embedded Linux, CMake, Make, Jira, Vivado, Jama
Hardware: SPI, I2C, UART, Xilinx Zynq 7000 SoC, Silabs Gecko SoC, Logic Analyzers, Oscilloscopes, Multimeters, Signal Generators
Soft Skills: Excellent verbal and written communication, excel in team-based collaborative environments

WORK EXPERIENCE

Engineer II, Software, SEAKR Engineering (6/2024 – Present)

- Providing software support to radiation tests of commercial processors
- Reverse engineered Asrock motherboard I2C topology to obtain test telemetry
- Contributed improvements to radiation test software platform

Embedded Firmware Engineer, Particle Measuring Systems (9/2022 – 6/2024)

- Maintained an embedded Linux distribution with Yocto, including device tree and driver development
- Developed a Zynq and Linux based hardware evaluation platform to help retire firmware risks
- Designed and implemented an ethernet-based automated testing library for CI/CD pipelines
- Contributed to C++ application design and implementation
- Led technical discussions with project leads to align product requirements

Associate Embedded Firmware Engineer, Current Lighting (1/2022 – 9/2022)

- Developed device manager in Python for an IoT messaging protocol over UDP and BLE
- Optimized ICT test fixture code to reduce per-unit manufacturing time by half
- Maintained bare-metal C modules to handle IoT message processing, occupancy logic, system coherency, sensor data streaming, and closed-loop daylight harvesting

Firmware Engineering Intern, Current Lighting (5/2021 – 8/2021)

- Designed and implemented a CI/CD pipeline and testing framework using Azure Pipelines, Bash and Python

Computer Science Teaching Assistant/Tutor, Austin Community College (9/2018 – 5/2019)

- Graded C++ assignments and tutored students in C, C++, Python, Java, Javascript

EDUCATION

Texas A&M University; College Station, TX (9/2019 – 12/2021)

- B.S. in Electrical Engineering (Summa Cum Laude), Minor in Computer Science