Logan Kirkland

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Summary

Electrical and Computer Engineering graduate with experience in PCB design using Altium Designer, hardware debugging, and soldering. Skilled in developing and maintaining test fixture hardware, coupled with a strong background in firmware development and verification for various microcontroller architectures.

Skills

- **Hardware:** Altium Designer, PCB layout, hardware debugging, soldering
- **Firmware:** C code targeting NXP, STM, and TI microcontrollers, Arm Cortex-M architecture
- **Software:** C, C++, Python, Java, MATLAB, Git, SVN, TFS, Perforce
- **Web:** Apache2, PHP, Twig, MySQL, HTML, CSS
- **Management:** Agile (Scrum, Kanban), team leadership, product design, technical writing

Education

Electrical Engineering, B.S. · North Carolina State University **December 2018**

Computer Engineering, B.S. · North Carolina State University **December 2018**

Experience

Test Engineer · (Actalent) Caterpillar **December 2020 – March 2024**

- Developed over 100 Python functional tests using Robot Framework, selenium, pandas, and pywinauto
- Rearchitected our test framework to support additional testing capabilities, adhere to software best practices, and increase usability
- Researched, wrote, and presented a proposal to improve internal development practices, promote team efficiency, and increase customer satisfaction
- Led onboarding process for four new team members, including knowledge transfer and training

Firmware Verification Engineer · (Actalent) Honeywell **December 2018 – December 2020**

- Debugged and maintained test fixture hardware and software, developed new feature tests, and contributed to software test library
- Served as regression testing group team lead for four months, managing work and training new members
- Managed between five and ten regression runs simultaneously

Test Engineer · (Actalent) Carrier **March 2024 – Present**

- Implementing a fully automated Python-driven test system including integration with TeamCity
- Providing software architecture guidance to team, including system design and best practices

Lab Engineering Intern · Schneider Electric **July 2018 – December 2018**

- Led project in Electromagnetic Compatibility Testing lab on GTEM cell calibration
- Created visualization software using Python to streamline calibration process and improve UX
- Assisted in design and construction of EMC verification hardware