

Scott Griffiths
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github.com/alleybeachelectric

WORK EXPERIENCE

Apple Inc. 06/2020 - Present

Development Engineer V, SF Bay Area, CA

- Co-manage 10 cross-functional labs; oversee equipment, consumables, and EHS compliance
- Designed 19 custom test racks; co-developed 6 for 24/7 use with Ansible automation
- Built and maintained a fleet of ~300 electromechanical test robots, enhancing hardware reliability through iterative design improvements and firmware updates
- Prototyped test fixtures with Fusion 360, Siemens NX, and 3D printing to unblock testing
- Implemented automation scripts in Python and Bash to streamline manual and automated test executions, improving efficiency and accuracy in test procedures
- Led 15 lab relocations across California; planned and executed 4 priority lab buildouts
- Collaborate with EHS to enforce safety protocols and drive compliance across all lab spaces
- Solder fine-pitch components (01005–0603, BGA, CSP, QFN) using hot air, iron, and hot plates
- Mentored 6 interns and contractors, accelerating onboarding and technical ramp-up across work flows
- Supported purchasing, lab safety, asset tracking, and SAM across org-wide operations

Spanvis 08/2019 - 05/2020

Electronics Lab technician, San Bruno, CA

- Re-designed 3 internal test fixtures and built 3 cartesian robots to support automated product testing
- Maintained Altium Designer parts library and managed physical inventory for rapid prototyping
- Ran daily test cycles, performed electrical/mechanical rework, and debugged prototype issues
- Soldered components (0402, SOT-23, M-SOP, QFN) using hot air and iron techniques
- Designed parts in Fusion 360; prototyped with FDM and PolyJet 3D printing
- Created and executed test plans for validation using Pico Logger and DataQ acquisition systems
- Built and improved unit test fixtures used for RMA QC, increasing coverage and throughput
- Updated and designed schematics and PCBs to resolve hardware/firmware bugs in production boards

eLock Technologies 04/2017 - 08/2019

R&D Senior Technician, Berkeley, CA

- Led internal testing workflows and served as primary tester for product assemblies
- Designed, built, modified, and repaired circuit boards, including 4 that shipped to production
- Created and iterated on schematics and PCBs; collaborated with overseas assembly lines (Czech Republic) for manufacturability
- Evaluated off-the-shelf and custom components for integration into new and existing hardware.
- Wrote and tested firmware in Arduino IDE; worked with software engineers to resolve driver issues
- Operated FDM 3D printers to produce mechanical prototypes and test fixtures
- Managed warehouse inventory and maintained part library to support hardware and test engineering

Next Thing Co. 09/2015 - 01/2017

Electrical Engineer, Oakland, CA

- Led product design, rapid prototyping, schematic/PCB design, and lab operations
- Codesigned and enhanced C.H.I.P., a \$9 single-board computer; managed full lifecycle from concept to production
- Drove development of VGA_DIP, PocketC.H.I.P., and additional products from prototype to shipment
- Created custom test fixtures for all in-house designs
- Managed BOMs, offshore sourcing, and assembly line coordination

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EDUCATION

Laney College
Oakland, CA, A.S. Computer Information Science 05/2025
• Phi Theta Kappa Honor Society
• Summa Cum Laude
• 3.90 GPA

Fresno City College
Fresno, CA, A.S Electronic Systems Technology (incomplete) 08/2012 - 05/2015
• Science and Engineering Club
• 3.5 GPA

Clovis High School
Clovis, CA, High school Diploma 06/2012
• 3.75 GPA

Center for Advanced Research and Technology
Clovis, CA 08/2010 - 06/2012
Certifications: Cisco, Microsoft Office
• Lego Robotics Captain

SKILLS

Programming: Python, C, C++, Java, Javascript, Astro, Bash, Arduino IDE, PyCharm, Git
CAD & 3D Modeling: Fusion 360, Siemens NX
PCB Design: EAGLE, KiCad, Altium
OS: Mac, Windows, Linux

HOBBIES & INTERESTS & OTHER RELEVANT ACTIVITIES

- Volunteer manufactured face shields for the COVID-19 Pandemic using 2 personal 3D printers
- Volunteer at hacker spaces on weekends to teach students how to use 3D printers, CNC mills, & lasers
- Write music on & performed with custom modified Gameboys & other vintage video game consoles
- Play Counter Strike competitively on a team as a support player
- Refurbish 35mm Film cameras