Matthew Mejia

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SUMMARY

Electrical Engineer with hands-on experience designing and testing embedded electronics, including multiple production PCBs involving power regulation, digital interfaces, microcontroller-based systems, and mixed-signal circuits. Skilled in hardware bring-up, structured debugging using oscilloscopes, and documenting root-cause findings to improve board reliability. Proficient in Fusion 360 for CAD modeling and mechanical integration. Strong understanding of programming logic in C/C++ and Python, with ongoing improvement toward fluency for embedded applications.

CORE TECHNICAL SKILLS

Electronics Design: PCB Schematic Design, PCB Layout, Mixed-Signal Circuits, Buck Regulators, Rectifiers, Microcontroller-Based Embedded Systems, SPI, UART
Bench Testing: Oscilloscopes, Signal Generators, Multimeters, SMD Soldering & Rework, Hardware Bring-Up
Programming: C/C++ (fundamentals), Python (fundamentals); strong understanding of programming logic
Tools: KiCad, Fusion 360 (CAD), Rapid Prototyping
Other: Root-Cause Analysis, Documentation, Manufacturing Support, Troubleshooting, Basic RF Concepts

PROFESSIONAL EXPERIENCE

Support Engineer — Aether RF, LLC (March 2024 – Present)
• Designed and tested multiple PCB assemblies used as host platforms for proprietary RF communication modules.
• Created schematics and multi-layer PCB layouts including switching power supplies, embedded microcontroller systems, digital interfaces, and mixed-signal domains.
• Performed hardware bring-up and structured debugging using oscilloscopes and targeted test procedures.
• Conducted root-cause analysis on electrical and integration issues, documenting findings to improve design reliability and guide next-revision improvements.
• Built and tested prototypes using hands-on SMD soldering techniques.
• Designed enclosure and mounting components using Fusion 360 to support mechanical integration.
• Collaborated with engineers to refine power architecture, improve board robustness, and support manufacturing and field deployment.

Engineering Shop Technician — Grand Canyon University (Feb 2023 – Mar 2024)
• Maintained and repaired CNC machines, welding tools, electronics equipment, and other lab systems.
• Trained more than 1000 students on proper equipment operation, improving lab efficiency and safety.
• Reduced downtime through structured troubleshooting and preventive maintenance routines.

Resident Assistant — Grand Canyon University (Aug 2022 – May 2023)
• Oversaw a residential community of 500+ students while managing safety, communication, and conflict resolution.
• Balanced building operations responsibilities alongside engineering coursework.

Technical Support Specialist — Grand Canyon Education (Jan 2022 – May 2022)
• Resolved software and platform issues for instructors and students and improved troubleshooting workflows.

Electronic Repair Technician — CPR Cell Phone Repair (Aug 2020 – Aug 2021)
• Performed diagnostics, microsoldering, and board-level repairs on consumer electronics.
• Completed 10–15 repairs daily and independently maintained store operations during staffing shortages.

EDUCATION

Bachelor of Science in Electrical Engineering — Grand Canyon University (2024)

ADDITIONAL INFORMATION

U.S. Citizen · Fusion 360 CAD Proficiency · Experience designing mixed-signal and microcontroller-based PCBs · Interest in aerospace hardware development and continued growth in RF engineering and advanced test methods