ANTHONY MURESAN

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WORK EXPERIENCE

Scientific Research Corporation — Electrical Engineer II

Huntsville, AL | March 2025 – Present

- **RF Prototyping & Test:** Built and bench-tested a 12-channel transmit LRU for a C-band PESA radar emulator. Conducted hardware testing using spectrum analyzers and signal generators to characterize mixer spurs against a -60 dBc target, measured channel isolation, and optimized RF chain gain by 5 dB to overcome test equipment power limitations.
- **DC Power & Solar Integration:** Designed wiring diagrams and performed system calculations to integrate custom and off-the-shelf hardware for an off-grid solar subsystem. Authored Altium schematics for multi-rail DC microgrids, specifying circuit protection, component ampacity limits, and common grounding architectures.
- **Power & Safety Systems:** Engineered primary AC/DC power distribution layouts and integrated hardware safety controls, designing dual-button E-stop circuits utilizing time-delay relays, EPO contactors, and knife switches.
- **Hardware & Interconnect Engineering:** Engineered multi-branch wire harnesses and cable assemblies, defining wire gauges, labels, and component BOMs. Developed preliminary wiring diagrams and directed CAD designers in finalizing SolidWorks assembly drawings to ASME Y14 standards.
- **Leadership:** Served as HWCI lead for a Critical Design Review, acting as the technical coordinator for an RF electronics cabinet. Trained and directed three junior engineers in Altium schematic design, cable drafting, and power subsystem analysis.

Acuity Brands — Application Engineer

Ontario, CA | June 2022 – March 2025

- Designed commercial and industrial lighting control systems compliant with Title 24, IECC, and ASHRAE 90.1, implementing DMX, RS232, RS485, DALI, and BACnet protocols.
- Created wiring diagrams, control panel schedules, and technical device documentation in direct collaboration with engineering teams for new product deployments.

TECHNICAL SKILLS

- **Software & EDA Tools:** Altium Designer, KiCAD, MS Suite
- **RF & Hardware Test:** Spectrum Analyzers, Signal Generators, Signal Chain Analysis
- **Power Systems:** AC/DC Distribution, Safety Controls, Battery/Solar Integration
- **Design & Integration:** Cable Harness Engineering (ASME Y14), Component Selection

EDUCATION

B.S., Electrical Engineering

University of California, Riverside | June 2022

ABET Accredited