

Aarti Tank

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EDUCATION

University of California, Riverside

Bachelor of Science in Electrical Engineering

August 2024

Riverside, CA

- **GPA:** 3.8
- **Coursework:** Power Systems, Signals and Systems, Control Systems, Analog & Digital Circuit Design

WORK EXPERIENCE

Boeing

Design and Analysis Engineer

October 2025 – Present

Everett, WA

- **Freed \$1.6 million annually** by automating data pulls from supplier files and sorting parts and connections.
- **Saved \$700 thousand annually** by automating checks of electrical requirements and schematic drawings.
- **Cut 30 hours of program delays** by running 10 technical reviews with suppliers and engineering teams.
- Built the 787 Video Control Station setup for **3+ airline fleets** by defining the equipment, wiring, and install.
- **Technologies used:** Mapper, Excel, Stone Soup, IVT

Savoy Engineering

Electrical Engineer Technician

May 2025 – October 2025

Torrance, CA

- **Saved ~400 engineering hours annually** using Git to track design revisions for high-current PCB systems, streamlining collaboration across time zones while reducing design conflicts and change-management efforts.
- **Saved ~20 hours of rework** by building and checking PCB layouts on 5+ boards before final assembly.
- **Completed 135 through-hole and SMD solder jobs** on parts as small as 0.5mm, following schematics.
- Traced voltage and current to find faults in analog and digital circuits before they reached customers.
- **Technologies used:** Altium Designer, Git, Oscilloscopes, Multimeters, DC power supplies, SMD soldering

Apple

Technical Specialist

August 2024 – September 2025

Manhattan Beach, CA

- **Drove a 10% increase in AppleCare sales** by building customer trust and explaining issues in simple terms.
- **Improved service efficiency**, saving ~200 hours annually by resolving software-related failures with system resets and iOS/macOS restores through Apple Configurator, Finder, and iTunes instead of hardware repairs.
- **Resolved ~95% of customer issues** by diagnosing hardware and software problems.
- **Technologies used:** Apple Services Toolkit, Console, Disk Utility, Apple Configurator, Finder, iTunes

PROJECTS

NASA

Lucy Rover, Electrical Development Team

April 2023 – August 2023

- **Calculated an 80W power budget for NASA's Lucy Rover** by analyzing speed, mass, and electrical loads.
- **Verified mechanical fit for 10+ components** using Siemens NX and AutoCAD, preventing design conflicts.
- **Advanced electrical designs through PDR and MDR** by verifying compliance with NASA standards.

Play Pilot

Senior Design Project, University of California Riverside

September 2023 – April 2024

Riverside, CA

- **Enabled stage performers to safely move up to 300 lb of props and performers** with a remotely controlled automation platform, replacing manual handling during live performances.
- **Delivered real-time remote control with a ~50 ms response time**, linking a Wi-Fi-equipped microcontroller to a GUI for start/stop, steering, and adjustable speed control during live shows.
- **Prioritized operator and passenger safety** with emergency-stop controls that disabled the motor driver.

Music Player

University of California Riverside

May 2023

Riverside, CA

- **Programmed a music player** using Arduino Uno and Arduino C, with song selection, skip, and reverse.
- **Applied PWM and timer interrupts** to keep playback and input handling reliable in real time.