

ANDREW D. RIVERA

Equipment Technician | Mechanical Troubleshooting & Preventive Maintenance | Manufacturing Operations
Bloomington, CA | 909-330-6947 | andrew@3dxera.com | linkedin.com/in/andrewxera

SUMMARY

Hands-on equipment technician with 5+ years of experience troubleshooting, maintaining, and operating complex mechanical and electromechanical equipment across robotics, automation, and production environments. Skilled in root-cause diagnosis, preventive maintenance planning, and equipment monitoring to maintain uptime and product quality. Comfortable learning new equipment and software platforms quickly, with a strong mechanical foundation from a B.S. in Mechanical Engineering and hands-on PLC/controls training.

PROFESSIONAL EXPERIENCE

Mechatronics Engineer — *Google DeepMind (via Amaze-Systems, Contract)* **Apr 2026 – May 2026**
Mountain View, CA | Apptroik Apollo Humanoid Robot Fleet

- Operated and maintained a fleet of 20+ complex robotic systems in an active field deployment, troubleshooting mechanical, electrical, and software issues to maintain uptime and system readiness.
- Performed hands-on equipment diagnostics and component-level repairs, escalating recurring issues to engineering to improve long-term reliability.

Senior Test Engineer — *Apple (via HCL Tech)* **Oct 2024 – Jul 2025**
Sunnyvale, CA

- Set up and operated EE bench equipment and specialized test instrumentation (thermal chambers, IR thermography, DAQ systems) to execute established test procedures, maintaining equipment calibration and functionality for battery and thermal validation work.

Mechatronics Technician — *Amazon* **Jul 2022 – Oct 2024**
Bloomington, CA

- Operated, monitored, and troubleshoot high-volume automated equipment (robotics, conveyor, and sortation systems), diagnosing 2,000+ mechanical and electrical issues and improving repair turnaround by 30%.
- Performed preventive maintenance and led a reliability overhaul across 400+ pieces of automated equipment, doubling operational uptime through hands-on mechanical retrofits and system upgrades.
- Read mechanical drawings, electrical schematics, and PLC logic to quickly diagnose equipment faults; trained and mentored new technicians on troubleshooting and safe operating procedures.

Mechatronics Robotics Apprentice — *Amazon* **Mar 2021 – Jul 2022**
Stockton, CA

- Completed 2,000+ hours of hands-on technical training across mechanical, electrical, pneumatic, and PLC-controlled equipment systems, quickly learning to operate and maintain new equipment platforms.
- Supported installation and startup validation of 1,000+ pieces of automated equipment during a new facility launch, working directly with vendors and technicians to ensure equipment was production-ready.

EDUCATION

B.S., Mechanical Engineering — California State University, Los Angeles, 2019

PMMI Mechatronics & Robotics Automation Certification — Lehigh Carbon Community College, Mar – Jun 2021
(Mechanical, Electrical, Fluid/Pneumatic Systems, PLC Programming, VFD Commissioning)

TECHNICAL SKILLS

Equipment Operation & Maintenance: Preventive & corrective maintenance, equipment troubleshooting & root-cause diagnosis, mechanical/electrical schematic reading, quality & uptime monitoring

Controls & Mechanical Systems: PLC systems (Allen Bradley, Mitsubishi), sensors & actuators, mechanical transmission systems, VFD commissioning

Adaptability: Quick learner across new equipment platforms and software tools, safety-conscious operation, hands-on component-level repair, comfortable with overnight/shift schedules