

## David Saldana

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## Objective

To secure a challenging position in the EV engineering industry or Aerospace and Defense industry, leveraging my skills, certifications, and extensive technical experience.

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## Certifications

- EPA Universal Refrigerant Handling Certification
  - OSHA 10-Hour Card
  - AutoCAD Certified Professional (ACP)
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## Key Skills

- **Systems & Testing:** Rectifiers & Inverters, Flight Control Systems, Space Simulation Chambers
  - **Diagnostics & Tools:** Wiring Diagrams, Mechanical Schematics, PLC & HMI Systems, CAN Protocol
  - **Software & Design:** AutoCAD, MS Office Suite, C++, Python, JavaScript, PCAN View, Visual Studio
  - **Testing & Troubleshooting:** Environmental, Endurance, and DVT Testing, Root Cause Analysis
  - **Standards & Practices:** Clean Room Protocols, Laser Safety, Manufacturing Practice, Arc Safety
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## Education

- **UCI, Irvine, CA:** Coding Certificate (ongoing)
- **UCSD, San Diego:** Engineering Design Certificate (AutoCAD)
- **UCR, Riverside, CA:** Mechanical Engineering
- **Brownson Technical School:** Commercial/Domestic Refrigeration & Air Conditioning Certificates

## **Professional Experience**

### **Ampure (Formally Webasto), Monrovia, CA**

*R&D Test Engineer*

**March 2021 – January 2025**

- Develop and execute test procedures for charging systems and batteries.
- Troubleshoot and revise board-level schematics and wiring diagrams.
- Assemble PCB boards and handle high-voltage equipment.
- Develop and execute battery scripts using C++
- Build custom test equipment and review CAD diagrams with engineers.

### **Jet Propulsion Laboratory (JPL), La Canada Flintridge, CA**

*Test Chamber Engineer*

**October 2019 – March 2021**

- Operated and maintained space simulator thermal chambers and LN2 systems.
- Conducted environmental testing for Mars Perseverance rover, NISAR, and SWOT projects.
- Installed and maintained wiring and test setups for flight hardware.
- Performed thermal, vacuum, and solar testing with clean room protocols.

### **Safran USA (Collins Aerospace), Irvine, CA**

*Engineering R&D Lab (Boeing 777x Program)*

**January 2019 – October 2019**

- Conducted ATP/ATM testing on prototype flight control systems.
- Managed test documentation and equipment inventory.
- Collaborated with Boeing engineers on endurance and vibration testing.

### **Advanced Thermal Sciences (Collins Aerospace), Anaheim, CA**

*Engineering R&D Lab*

**November 2016 – January 2019**

- Performed ATP on systems and revised PLC/HMI controllers.
- Assembled and tested PCB boards and handled inert fluids.
- Reviewed CAD diagrams with design teams.

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**References:** Available upon request.