

Rowan Howard

Avionics Manufacturing Engineering Intern

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SUMMARY

Motivated engineering student seeking an internship at AeroTech Innovations. Tempered experience in avionics systems, developed through academic projects and research assistantships. Demonstrated competency in manufacturing processes for aerospace components. Outstanding problem-solver skilled at devising innovative solutions and collaborating effectively within teams. Committed to driving success in fast-paced environments by assuming project ownership and delivering results that exceed expectations. Eager to contribute my background in electrical and mechanical engineering while learning from experienced professionals in a dynamic team environment.

EDUCATION

Bachelor of Science in Engineering

University of California, Los Angeles 🎓 GPA: 3.8 📅 2026 📍 Los Angeles, CA

Coursework: Electrical Engineering, Mechanical Engineering, Manufacturing Processes, Avionics Systems

TECHNICAL SKILLS

- **Manufacturing Technologies:** 3D Printing, CNC Machining, Laser Cutting
- **Software Tools:** MATLAB, LabVIEW, SolidWorks
- **Testing Techniques:** Prototype Testing, Performance Evaluation, Reliability Testing
- **Research Methodologies:** Quantitative Analysis, Qualitative Assessment, Experimental Design
- **Simulation Software:** MATLAB Simulink, COMSOL Multiphysics, ANSYS
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** Trello, Asana, JIRA
- **Programming Languages:** Python, C++, MATLAB
- **Engineering Standards:** AS9100, ISO 9001, IPC-A-610
- **Electronics Tools:** Oscilloscope, Multimeter, Function Generator

SKILLS

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|--------------------------------------|--------------------------|---------------------|------------------------|
| • CAD Software (SolidWorks) | • Problem-Solving Skills | • Communication | • Collaboration Tools |
| • Electronic Device Assembly | • Teamwork | • Prototyping Tools | • Process Improvements |
| • Optical Device Assembly | • Data Analysis | • Testing Methods | • Presentation Skills |
| • Manufacturing Process Optimization | • Research Methodologies | • Technical Writing | |

EXPERIENCE

Avionics Systems Developer

University Project 📅 January 2026 – May 2026 📍 Los Angeles, CA

Developed a prototype avionics system focused on enhancing reliability and performance under high-stress conditions. Engaged collaboratively with a four-member team to design and fabricate critical components such as harnessing and PCBAs. Conducted rigorous testing and validation to ensure each component met industry standards; results communicated systematically to faculty and industry experts. Utilized CAD software comprehensively to create designs and improve technical knowledge in related principles. Proactively addressed technical challenges using innovative methods improving overall process efficiency.

- Designed a spacecraft avionics system prototype adhering to stringent reliability standards.
- Collaborated with peers to fabricate key parts, ensuring compliance with aviation requirements.
- Conducted detailed testing phases, analyzing results to enhance operability and reliability.
- Utilized CAD effectively for component development, deepening understanding of key engineering concepts.
- Innovatively solved emerging technical challenges throughout the project lifecycle for optimal outcomes.

Electrical Engineering Research Assistant

Academic Research 📅 September 2025 – December 2025 📍 Los Angeles, CA

Assisted in pioneering research aimed at developing economical manufacturing techniques applicable to space-grade components. Analyzed experimental data focusing on material performance assessments across varying scenarios. Contributed significantly to preparing research papers, which fostered effective communication skills. Worked closely with faculty to refine methodologies boosting overall research productivity.

- Supported innovative research initiatives targeting cost-effective manufacturing for aerospace.
- Sifted through experimental findings, diligently evaluating various materials' performance metrics.
- Drafted comprehensive research papers, enhancing articulation and technical writing capabilities.

- Collaborated with multiple partners to streamline research processes resulting in heightened efficiency.

Opto-Mechanical Systems Team Member

Hackathon Project 📅 March 2025 📍 Los Angeles, CA

Contributed to a dynamic 48-hour hackathon focused on crafting inventive solutions pertinent to space exploration challenges. Conceptualized and constructed a demonstration model of opto-mechanical assemblies using a hands-on approach with prototyping tools. Actively participated in brainstorming sessions leading the creative efforts to finalize project presentations. Earned recognition for outstanding teamwork and application of core engineering principles amidst intense pressure.

- Played a crucial role in fabricating a working model aimed at solving space-related issues.
- Participated in active collaboration yielding fruitful discussions and innovative solutions.
- Utilized prototyping methodologies expertly for designing functional opto-mechanical systems.
- Received accolades for exemplary contribution in maintaining team morale under strict deadlines.

LEADERSHIP & AWARDS

- Dean’s List, University of California, Los Angeles, 2025
- Best Project Award, University Engineering Fair, 2025

CERTIFICATIONS

- CAD Fundamentals Certificate 📅 2026
- Basic Electronics and Circuit Design 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, UCLA
- Volunteer, STEM Outreach Program, Los Angeles, CA

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST