

HOMER HICKMAN

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EXPERIENCE

Design Engineer, Northrop Grumman, Los Angeles, CA May 2023 - Present

- Help integrate sensor systems onto Air Force and DoD aircraft and support equipment.
- Work with DoD program offices and contractors to review new technologies and support system upgrades.
- Design and test mechanical and electrical components, using additive manufacturing and design-for-manufacturing principles.
- Prepare technical data and presentations for senior Air Force and DoD leaders.
- Use experience in mechanical design, electrical systems, and manufacturing to deliver ready-to-use hardware.

Systems Design Engineer, Anduril, Los Angeles, CA Jun 2020 - May 2023

- Designed aircraft interior parts using NX, including wiring routes, sheet metal structures, and plastic shrouds.
- Supported cross-functional teams to ensure designs met FAA rules and customer requirements.
- Improved installation time by optimizing wiring routes and designing parts that were easier to assemble.
- Helped train junior engineers on NX, design standards, and basic certification requirements.

Flight Simulator Engineer (Co-op), Delta Air Lines, Los Angeles, CA May 2018 - Jun 2020

- Improved performance and reliability of the Boeing 717 full-flight simulator by upgrading the visual system and fixing technical issues.
- Improved engine model accuracy by adding updated GE and CFM engine data and analyzing icing and vibration effects.
- Ensured full FAA compliance by tracking performance issues and documenting findings for annual FAA inspections.
- Maintained over 99 percent simulator availability by quickly diagnosing and resolving problems with instructors and technicians.
- Wrote detailed reports and repair records to improve documentation and reduce future troubleshooting time.

Aerospace Engineering Intern, Space Systems Manufacturing, Los Angeles, CA Jun 2017 - Apr 2018

- Assisted in building and testing structural brackets and lightweight components for small-satellite platforms.
- Collected vibration and thermal test data and helped verify parts against qualification requirements.
- Updated CAD models and drawings under guidance from senior engineers using SolidWorks and NX.
- Worked with technicians to assemble prototype hardware and document build steps for future iterations.

EDUCATION

BSAE, University of California, Los Angeles (UCLA), Samueli School of Engineering May 2018

SKILLS

- **Stack:** C, FORTRAN, MATLAB
- **Design:** NX, CATIA V5, SolidWorks, Inventor, GD&T, DFM/DFA
- **PLM:** Teamcenter, Enovia LCA, Matrix One