

Carlos Rojas

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OBJECTIVE

Seeking an engineering position in the aerospace industry, where I may apply my experience and enthusiasm to create, and improve, new and existing products.

EDUCATION

University of California-San Diego

Bachelor of Science in Aerospace Engineering

La Jolla, CA

Graduated June 2018

- Relevant Course work: Fluid Mech., Heat Transfer, Thermal, Aerodynamics, Aerospace Structural Mechanics, Space Mission Analysis and Design, Propulsion, Linear Control, Dynamics and Control of Aerospace Vehicles.

PROFESSIONAL EXPERIENCE

Teledyne RD Instruments

Mechanical Engineer

Poway, CA

Jul. 2018 - Present

- Design components and full assemblies for underwater mechanical and electromechanical products and systems using SolidWorks.
- Perform simulation and analysis on systems and parts to ensure viability of products under extreme conditions.
- Collaborated on the R&D mechanical team to launch new products to meet target dates and stakeholder goals.
- Create and update mechanical detail, assembly and associate drawings.
- Incorporate ECOs (Engineering Change Order), maintain files, and archive ECOs.
- Create and review Bills of Materials in ERP system, IFS, are accurate and trackable.
- Utilize manufacturing knowledge to seek various processes and designs that increase performance, improve manufacturability, and reduce costs.
- Rapid prototyping solutions for individual customers specifications using a 3D printer.
- Create a standard, and conducted the meetings, for the approval of transferring custom products to normal production.
- Design and improve fixtures used to calibrate and test instruments.

Scripps Institution of Oceanography

Mechanical Engineer Assistant

La Jolla, CA

Feb. 2016 – Jun. 2018

- Design and modify models for mooring projects using SolidWorks 2017.
- Generate Bills of Material for assemblies.
- Maintain and calibrate sensor instruments for deployment.
- Deploy and recover research buoys near the coast of San Diego.
- Create documentation and procedures for assembly and disassembly of instrument cages.

LEADERSHIP EXPERIENCE

Team Leader; MAE 3 Robot Competition

Oct. 2015 – Dec. 2015

- Create and oversee most CAD designs for each parts of the robot
- Delegate the fabrication of each part for each team member
- Placed 2nd in a competition of 40+ teams

ADDITIONAL SKILLS

- Machine shop hands-on experience.
- Proficient in Microsoft Office Suite.
- Experience in C/C++, Java, Matlab, and Labview.
- Advance in SolidWorks.
- Experienced with ANSYS and Simulation Software for FEA
- Skillful with 3D Printer and LaserCAMM