

Carlos Rojas

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OBJECTIVE

Passionate, self-motivated engineer seeking to transition into software to apply and improve my skill set. Striving to become an asset for the company by leveraging my previous experience as a problem solver.

EDUCATION

University of California-San Diego Extensions

Full Stack Web Developer Boot-Camp

La Jolla, CA

Completed March 2020

- Relevant Course work: HTML5, CSS, JavaScript, jQuery, Bootstrap, Express.js, React.js, Node.js, MongoDB, MySQL, and Git.

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.

TECHNICAL SKILLS

- | | | |
|--------------|------------|-----------|
| • HTML/CSS | • Git | • MongoDB |
| • JavaScript | • React.js | • MySQL |

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.
- Work directly and indirectly with customers to modify instruments to meet their needs to have a successful deployment.
- 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.
- Incorporate ECOs (Engineering Change Order), maintain files, and archive ECOs.
- Create and review Bills of Materials in an ERP system, to ensure BoMs are accurate and trackable.
- Utilize manufacturing knowledge to seek various processes and designs that increase performance, improve manufacturability, and reduce costs.

Scripps Institution of Oceanography

Mechanical Engineer Assistant

La Jolla, CA

Feb. 2016 – Jun. 2018

- Designed and modified models for mooring projects using SolidWorks 2017.
- Generated Bills of Material for assemblies.
- Maintained and calibrated sensor instruments for deployment.
- Deployed and recovered research buoys near the coast of San Diego.
- Created documentation and procedures for assembly and disassembly of instrument cages.

ADDITIONAL SKILLS

- | | |
|---|--|
| • Machine shop hands-on experience. | • Experienced with ANSYS and Simulation Software for FEA |
| • Proficient in Microsoft Office Suite. | • Skillful with 3D Printer and LaserCMM |
| • Experience in Matlab, and Labview. | |
| • Advance in SolidWorks. | |