

# Carlos Rojas

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## OBJECTIVE

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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.

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## EDUCATION

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### University of California-San Diego Extensions

La Jolla, CA

*Certificate in Full Stack Web Developer Boot-Camp*

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

La Jolla, CA

*Bachelor of Science in Aerospace Engineering*

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.

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## PROJECTS

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- Etheron: A MERN app/game that creates, saves, and tracks user's character(s) in our own game.  
GitHub: [Etheron-RPG](#) Site: [Etheron-RPG-Heroku](#)
- Movie-Meme-Mash: A web forum using MySQL, jQuery, and passport.js to search and review movies with gifs.  
GitHub: [Movie-Meme-Mash](#) Site: [MMM-Heroku](#)

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## PROFESSIONAL EXPERIENCE

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### Teledyne RD Instruments

Poway, CA

*Mechanical Engineer*

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.
- 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

La Jolla, CA

*Mechanical Engineer Assistant*

Feb. 2016 – Jun. 2018

- Designed and modified models for mooring projects using SolidWorks 2017.
- 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.