

# JACOB CASTANEDA

Stanford, Ca · jjcast@stanford.edu · (951) 265-0563 · <https://jacobjcastaneda.github.io/>

## EDUCATION

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<b>Stanford University</b> PhD Environmental Engineering	Stanford, Ca Sep 2020 - Current
<b>Stanford University</b> MS Environmental Engineering	Stanford, Ca Sep 2019 - Mar 2021
<b>California Polytechnic State University- Pomona</b> BS Civil Engineering	Pomona, Ca Sep 2015 - Dec 2018

## WORK EXPERIENCE

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<b>JLC Engineering &amp; Consulting</b> <i>Design Engineer</i>	Murrieta, Ca Jun 2018 - Sep 2019
<ul style="list-style-type: none"><li>• Performed Hydrologic and Hydraulic Analysis for Land Development Projects</li><li>• Drafted Exhibits for various projects, namely Storm Drain Plans</li><li>• Implemented Basin Design by considering Basin storage and Sediment Transport</li><li>• Utilized various engineering software, primarily HEC-RAS and LA County WSPG</li></ul>	
<b>Resource Management Associates</b> <i>Junior Water Resource Engineer</i>	Walnut Creek, Ca Aug 2020 - Current
<ul style="list-style-type: none"><li>• Developed Python scripts to import water data for modeling efforts in SF Bay</li><li>• Collaborated with peers to develop data cleaning tools for Water Data Library Data</li><li>• Utilized USACE DSS tool and QGIS</li></ul>	

## SKILLS

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Programming:	Python, C++, C, MATLAB
Drafting & Analytical Software:	AutoCAD (Civil3D), HEC-HMS, CivilD, HEC-RAS, WSPG
Remote Pilot License:	Part 107 Airman Certificate, Certificate No: 4362954
Engineer in Training:	Recieved EIT in 2018

## PROJECTS

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### **Lost Canyons Residential Community (2018-2019)**

Performed a hydrologic analysis of the site using Ventura County protocol. Subsequently designed drainage infrastructure and basins to comply with county/city requirements. JLC Engineering was a subconsultant and I was given the opportunity to manage our responsibilities for the project, coordinate with the primary consultant, and carry out analysis for the project. The project tasks were completed within budget.

## AWARDS

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<b>Valedictorian of Civil Engineering</b> Recognized for obtaining the highest GPA in my degree program.	California Polytechnic State University- Pomona Dec 2018
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