

# Sean Marquez

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<https://github.com/capsulecorplab>

Passionate about the democratization of science & technology in pursuit of accelerating humanity towards a post-scarcity space-faring civilization.

## Experience

### **Tetra Bio Distributed**

*March 2020 - Present*

#### **DevOps Engineer & Technical Writer**

Maintaining build pipeline for publishing documentation for open-source medical devices, using a docs-as-code approach.

### **Space Cooperative, Inc.**

*August 2017 - Present*

#### **Principal Investigator & Product Owner**

Writing technical proposals for the NASA SBIR/STTR. Communicating with stakeholders to gather & specify software requirements. Verifying & validating software design against stakeholder requirements.

### **SolveCity**

*April 2017 - Jun 2017*

#### **Software Engineer**

Researched personalized page rank algorithms and graph database schemes for developing a publication search engine for data scientists.

### **rLoop, Inc.**

*July 2015 - March 2017*

#### **Numerical Simulations & Control Systems Engineer**

Developed 2D physics models & monte carlo simulations for analyzing trajectory dynamics and designing gain-scheduled PID controlled braking system for the hyperloop pod competition.

### **StrinKing Lacrosse, LLC**

*September 2015 - February 2016*

#### **Product Development Assistant**

Designed custom testbeds & embedded software for product development team.

## **Max Q Systems, Inc**

*February 2013 - April 2014*

### **Associate Mechanical Design Engineer**

Maintained technical drawings and facilitated configuration management for OEM product line.

## **Education**

**University of California, Irvine** | 2013 | Bachelor of Science (B.S.), Mechanical Engineering, specializing in design of dynamic systems

## **Skill Summary**

### *Industry Knowledge*

Software Engineering, Technical Writing, Open-Source, DevOps, Agile Software Development, Data Science, Project Engineering, Product Development, Aerospace, Model-Based Systems Engineering, Space Mission Analysis & Design.

### *Language Proficiency*

Bash, Python, AsciiDoc

### *Tool Proficiency*

Git, GitHub, Linux, Ubuntu, Vim, Docker, Hugo, AsciiDoctor, PlantUML

## **Organizations**

Planetary Society, Learn Teach Code, San Gabriel Valley Linux Users Group, Write The Docs, SysML v2 Submission Team (SST)