

# Christian Timbol

Email: [christian@ctimbol.com](mailto:christian@ctimbol.com) | Cell: (408) 398-9806 | Website: [ctimbol.com](http://ctimbol.com) | [linkedin.com/in/christiantimbol](https://www.linkedin.com/in/christiantimbol)

## WORK EXPERIENCE

---

### Space Systems Loral

May 2016 – May 2017

*Industrial Engineer Intern*

*Palo Alto, CA*

- Developed an internal website to support Thermal Systems' process improvement efforts, using PHP, SQL/MySQL, and HTML/CSS/JavaScript/AngularJS.
  - Communicated with MySQL database using "Asynchronous JavaScript and XML" (AJAX) and PHP.
  - Deployed website for Windows environment after collaborating with IT.
- Analyzed the thermal blanket process then translated and interpreted data from analysis to Thermal, Production, and Manufacturing teams for potential improvements.
  - Developed a prototype Python tool used with a USB barcode scanner to improve material management.

## PROJECT EXPERIENCE

---

### Twitterlytics: [ctimbol.com/live-Twitterlytics](http://ctimbol.com/live-Twitterlytics)

Jan 2018 - Present

- Developed Twitterlytics, an application that collects, parses, and displays Twitter JSON data, using Python/Tweepy/Flask, SQL/SQLite, HTML/CSS/JavaScript, and Git.
  - Illustrated the app's data flow from backend to frontend through Visio diagrams.
  - Verified software functionality throughout app development using the unit testing framework.

### ViralityBot: [twitter.com/viralitybot](https://twitter.com/viralitybot)

Sep 2017 – Jul 2018

- Developed ViralityBot, a Twitter bot that scans for and retweets viral tweets, using Python/Tweepy and Git.

### Mission Control Interface: [ctimbol.com/loch](http://ctimbol.com/loch)

Sep 2016 – Jun 2017

- Developed the arm and claw interface of SJSU Robotics' rover, using HTML/CSS/JavaScript/ReactJS and Git.
  - Displayed responsive 3D models of the arm according to interface inputs using three.js library.
  - Synchronized inputs from a USB joystick controller with interface using Gamepad API.
  - Deployed interface for Ubuntu Linux environment.

### Spartan Course Analysis & Matching: [ctimbol.com/SCAM](http://ctimbol.com/SCAM)

Feb 2017 – May 2017

- Led team in developing a course enrollment app, using PHP, SQL/MySQL, and HTML/CSS/JavaScript.
  - Block diagrammed using Visio to document various stages of the app through the SDLC process.
  - Used Apache as a local web server for development and debugging.

### Optimization of Nickel-Iron Plating: [ctimbol.com/195B](http://ctimbol.com/195B)

Sep 2016 – May 2017

- Developed a streamlined user interface based on worker feedback, using HTML/CSS/JavaScript.
- Conducted mathematical analysis to increase manufacturing output, using linear algebra and LINGO software.

### Intel Rapid Prototyping Challenge v3.0: [ctimbol.com/bllynx](http://ctimbol.com/bllynx)

Aug 2015 – Dec 2016

- Led team in developing a navigational device for visually-impaired people, using Arduino/C and an Intel Edison, which was awarded 2<sup>nd</sup> place at the final milestone held at Intel Headquarters.

## EDUCATION & SKILLS

---

### San Jose State University

May 2017

*Bachelor's Degree in Industrial & Systems Engineering (ISE)*

*San Jose, CA*

- **Languages:** C, CSS, HTML, JavaScript, LINGO, PHP, Python, SQL
- **Technologies:** AngularJS, Apache, Arduino, Flask, Git, MySQL, ReactJS, SQLite, Visio
- **Operating Systems:** Linux, MacOS, Windows