

# Aashin Shazar

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## Experience

### Intelligent Computing and Embedded Systems Lab

Undergraduate Research Assistant

03/2020 - Present

California, USA

- > Research involves development of next generation sensor fault-tolerant prosthetic technology.
- > Managed complete implementation of prototype Matlab code in Python with a 98% performance gain.
- > Conducted data exploration to inform data collection best practices and parameter selection.

### Tesla

Equipment Engineering Intern

05/2017 - 08/2018

California, USA

- > Managed complete SCADA implementation for 3 production machines to collect, store and report metrics.
- > Created data visualization dashboards for 15 structural casted parts to assist with engineering analysis.
- > Developed a \$3.75M cost saving machine learning application to yield greater process efficiency.

## Education

### San Francisco State University

BS, Computer Engineering

08/2018 - Present

San Francisco, CA, USA

- > Activities: Vice President of Alpha Sigma Phi

### Udacity

Certificate, Machine Learning Engineer Nanodegree

09/2018

## Projects

### EMILA

08/2019

- > [ashazar.me/projects/emila](http://ashazar.me/projects/emila)
- > Electromyography Muscular Interface Limb Assist (EMILA) is a cursory investigation into robotic prosthetics. This project gathers EMG data from EMG sensors which is then interpreted by a machine learning classifier to perform a previously mapped gesture.

### Udacity's Capstone Project

05/2018

- > A bottom up investigative research paper concerning the application of convolutional neural networks in a die-casting manufacturing environment. It features an exploratory analysis on the detection of surface defects on aluminum castings along with an indepth look on the usage of limited datasets to yield reliable results that can be applied to a mass manufacturing facility.

## Skills

**Programming** Python, MATLAB, C/C++, Java, Verilog

**Data Science** Numpy, Pandas, SQL, Numba

**Machine Learning** Keras, Sci-kit Learn, Tensorflow