



## Work experience

## Education

## Projects

## Certificates

## Skills

# AASHIN SHAZAR

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### Student Research Assistant

03/2020 – present

Intelligent Computing and Embedded Systems Lab, California, United States

- Research involves the implementation of a next generation neural-machine interface on a real time embedded system.
- Tasked with implementing prototype Matlab code in Python and C++.
- Improved performance of application by 98% in preliminary tests.

### Equipment Engineering Intern

05/2017 – 08/2018

Tesla, 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.

### Computer Engineering

08/2018 – present

San Francisco State University

Extracurriculars: Vice President of Alpha Sigma Phi

### 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 in-depth look on the usage of limited datasets to yield reliable results that can be applied to a mass manufacturing facility.

### EMILA

08/2019

<https://github.com/AashinShazar/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.

### Machine Learning Engineer Nanodegree

Udacity

### Programming

Python, C++, Verilog, Matlab, C, Java

### Data Science

Numpy, Pandas, SQL

### Machine Learning

Keras, Sci-kit Learn