JEFFREY WANG

13327 Entreken Ave, San Diego, CA 92129 | (858) 776-9132 | jfwang96@ucsd.edu | https://www.linkedin.com/in/iamjeffreywang

EDUCATION

University of California, San Diego

M.S. in Computer Science, focus in A.I. - 3.5 GPA — **2017-present**

B.S. in Mechanical Engineering - Magna Cum Laude, 3.87 GPA — **2013-2016**

AWARDS

ASME Award for Best Senior Design Project	June 2016
Muir College Senior Honors Society	September 2014 – June 2016
Provost Honors	September 2013 – June 2016
Muir College Undergraduate Research Scholarship	January 2014 – September 2014
Best use of Synaptics technology @ Hack Davis	January 2016

EXPERIENCE

Healthcare and Robotics Lab

Graduate Researcher — **September 2017 – Present**

Working on modeling human activity in uncertain environments. Currently focused on sensor-based human activity recognition using data processing and machine learning techniques.

ATA Engineering, Software Services and Robotics and Controls

Engineer — **July 2016 – August 2017**

Provided structural analysis and other engineering support for the NASA JPL Mars 2020 program. Performed data analysis and software prototyping for several SBIR initiatives. Worked on several different initiatives to streamline engineering work with software solutions; wrote programs in Python, Matlab, and Visual Basic.

Bioinspired Research and Design Lab

Undergraduate Researcher — **June 2015 – December 2015**

Researched directional dry adhesive, especially in the context of soft robotics. Work involved FDM and SLA 3D printing as well as high precision machining. Designed soft pneumatic actuators.

UC San Diego, MAE Department

Section Tutor — **October 2015 – December 2015**

Lead a 24-person section; taught AutoCAD, Inventor, 3D printing, and general engineering design as well as basic machining skills. Responsibilities also included holding office hours and grading.

ATA Engineering, Software Services

Intern — **June 2014 – September 2014**

Scripted installers for every commercial program developed at ATA. Wrote several macros for NX Advanced Simulation in VB.NET. Used MATLAB to create a 3-D moment visualization program, an object-oriented file converter capable of processing multi-gigabyte files, and various other macros.

PROJECTS

Hashtag Generator — **March 2018**

Trained a convolutional neural network to predict hashtags that would boost a post's popularity based on the image in the post. Used a pretrained VGG16 network for transfer learning. Data scraping was done in PHP; network was implemented in Pytorch.

GE Intelligent Cities Competition – 2nd place — **October 2017**

Leveraged GE's smart city sensors to create an app to help pedestrians navigate downtown San Diego safely. Trained a recurrent neural network in Tensorflow on data scraped from GE's CityIQ API, and sampled the network for traffic predictions.

Triton Competitive Robotics — **June 2015 – June 2016**

Created a student organization to grow the undergraduate robotics community at UC San Diego. Led a team to build an autonomous robot for competition at RoboGames and another team to compete in Season 2 of ABC's BattleBots. Organized outreach events in the San Diego community.