

JEFFREY WANG

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skills

MATLAB

AutoCAD

Inventor

SOLIDWORKS

NX PLM

Femap

3D Printing

Lasercutting

CNC Mill

C/C++

Java

VB.NET

Python

HTML

Microsoft Office

Photoshop

Mandarin

EDUCATION/HONORS

- BS. Mechanical Engineering, Math Minor at UC San Diego, Class of 2016 (expected) 3.9 GPA
- Muir Freshman Honors
- Provost Honors (every quarter)
- Muir College Senior Honors Society Member
- Triton Engineering Student Council Board Member

WORK/RESEARCH

- **Bionspired Robotics and Design Lab (June 2015 - now)**
Researched directional dry adhesives. Work involved FDM and SLA 3D printing and very high precision machining. Designed and fabricated soft pneumatic actuators using silicone molding. Used an Instron for stress testing.
- **MAE 3 (Engineering Graphics and Design) Tutor (Oct - Dec 2015)**
Lead a 24 person section; taught AutoCAD, Inventor, 3D printing, and general engineering design as well as machining skills. Responsibilities also included holding office hours and grading assignments.
- **ATA Engineering (June - Sep 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.
- **Bandaru Research Group (Nov 2014 - June 2015)**
Investigated the use of graphene as electrodes in double-layer capacitors. Modeled battery and capacitor discharge curves.

PROJECTS/ORGANIZATIONS

- **Triton Competitive Robotics - President**
Created student organization to grow the robotics community at UC San Diego. Developed the sponsorship process and coordinated efforts by other student orgs to hold relevant workshops. Organized outreach events in the greater San Diego community. Currently leading a team to compete in Season 2 of ABC's BattleBots.
- **SD Hacks - Internal Lead**
For 2015, handled the logistics of a groundbreaking and highly successful \$300k+, 1000+ person event. As Co-director for next year, handle recruiting efforts and plan how best to scale the event as well as manage handoff.
- **Engineers for a Sustainable World - Data Logger Project Leader**
Designed an array of sensors (and modeled the design in CAD) to collect ambient condition and power output data from solar panel installations. Implemented a system to calibrate sensors and upload real time data to the web through a Raspberry Pi.
- **Independent Research Project**
Programmed an Arduino microcontroller to trigger a flash for high-speed photographs. Applied different band-pass filters to sound signals, designed a laser tripwire, and interpreted accelerometer data in order to create various triggers. Received funding from Muir College's Undergraduate Research Scholarship.