

# ADRIENNE CHANG

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/in/adriechang

## EDUCATION

Sept 2014 - June 2018 **University of California, San Diego**  
Electrical Engineering B.S., specialization in Machine Learning (GPA: 3.12)  
Minor in Cognitive Science

**TECHNICAL SKILLS** Java, Matlab, Python, Modeling/Data Analysis, Object-Oriented Programming, Data Structures

## ENGINEERING PROJECTS

- Jan 2018 - March 2018 **LabVIEW Programming: Design and Applications**
- Programmed an event-based state machine in LabVIEW using myRIO Software Bundle
  - Modelled Ferris wheel in SolidWorks and constructed it using rapid prototyping techniques
- June 2018 - Dec 2018 **Transmission of Touch VR Team, Project-in-a-Box**  
*Project Member*
- Prototyped a wearable glove to control a 3D printed robotic arm
  - Programmed Arduino Uno, Adafruit PWM/servo driver, SparkFun multiplexer and SparkFun RedBoard
- April 2016 - Sept 2017 **Students for the Exploration and Development of Space (SEDS UCSD)**  
*Structures Engineer*
- Developed and manufactured the chassis of a 6U satellite to compete in NASA's Cube Quest Challenge
  - Modelled satellite's entire assembled system in SolidWorks to analyze and adjust to all subsystem requirements
- Jan 2017 - March 2017 **Pinball Design Project**
- Programmed Arduino Mega to control DC and servo motors, solenoids, sensors and LEDs
  - Designed and constructed a fully functioning pinball machine
- Nov 2015 - April 2016 **popupCAD Challenge**  
*First Place Winner*
- Designed and constructed a laminate active device in popupCAD to create multi-layer design files in seven weeks

## WORK EXPERIENCE

- March 2018 - Present **ECE 188 Engineering LabVIEW Programming** ECE Department, UCSD  
*Tutor*
- Teaching students LabVIEW fundamentals using National Instrument's equipment myRIO, and myDAQ
- Sept 2017 - Present **ECE 196 Engineering Hands-on Group Project** ECE Department, UCSD  
*Tutor*
- Teaching maker skills such as 3D modeling/printing, C++ programming, soldering and PCB design
- June 2017 - Aug 2017 **Digital Media Academy** California, USA  
*Instructor*
- Taught 3D modeling/printing, C/C++ and Java programming to middle and high school students

## CERTIFICATIONS

- SolidWorks** Certified SOLIDWORKS Associate (CSWA) C-5MRBDWR56V
- National Instruments.** Certified LabVIEW Associate Developer (CLAD) 100-318-11096

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