

ADRIENNE CHANG

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EDUCATION

University of California, San Diego

Sept 2014 - Jun 2018

Electrical Engineering B.S., specialization in Machine Learning

Minor in Cognitive Science

TECHNICAL SKILLS

Software: LabVIEW (Real-Time), DDS, Python, Flask, MongoDB, HTML/CSS/JS, Git/Stash/SVN, JIRA/Confluence, Wireshark/TDMS, OOP, GUIs, Unit Tests

Hardware/Test: NI cDAQs, Oscilloscope, Signal Generator, DMMs, Loop Calibrators, Microcontrollers

WORK EXPERIENCE

Virgin Orbit

Data Systems Test Engineer

Oct 2018 - Present

Mojave, CA

- Created test operator console GUIs for new scalable test stand architecture by combining LabVIEW OOP and DDS with validation through unit tests and system checkouts
- Revamped customizable live data plotting tool and added saved configuration feature for monitoring test stand during auto-sequences and troubleshooting which led to increased usage across entire propulsion team
- Developed a web application to run an in-house database to track the use of test stand hardware
- Increased data accuracy tenfold by upgrading electrical hardware and calibrating instrumentation and NI cDAQ equipment
- Created procedures and performed end-to-end checkouts of ground and engine instrumentation (pressure transducers, thermocouples, RTDs, accelerometers, flow meters, valves)
- Owned breakout harness catalog and fabrication through JIRA Kanban board which streamlined installation checkouts and decreased troubleshooting and training time

LabVIEW Programming & Hands-On Group Project

Tutor

Sept 2017 - Jun 2018

ECE Department, UCSD

- Taught class of 20 students LabVIEW fundamentals using National Instrument's myRIO and myDAQ
- Taught prototyping skills such as 3D modeling, Arduino programming, soldering and PCB design

ENGINEERING PROJECTS

LabVIEW Programming: Ferris Wheel

- Prototyped a ferris wheel and implemented an event-based state machine in LabVIEW using myRIO Software Bundle

Students for the Exploration and Development of Space

- Developed and manufactured the chassis of a 6U satellite to compete in NASA's Cube Quest Challenge (SolidWorks)

CERTIFICATIONS

National Instruments Certified LabVIEW Associate Developer 100-318-11096