Colleen Lau

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EDUCATION

CAL POLY SLO
California Polytechnic State Univ.
BS in Electrical Engineering
Minor in Computer Science
Expected Grad. Dec 2019
Cum. GPA: 3.1

University of Hawaii
August 2015 - May 2017
BS in Electrical Engineering
Chancellor's Merit Scholar

SKILLS

Electrical Engineering:
- Oscilloscope
- Function Generator
- Multi-meter
- Power Analyzer
- Soldering
- PSpice, LT Spice

Programming:
- Java
- Python
- C/C++
- MATLAB
- VHDL

Tools:
- GitHub/GitLab
- Linux/Unix
- Windows
- Android Studio

COURSEWORK

Electrical Engineering
- Classical Control Systems
- Discrete-Time Signals
- Electronics and Integrated Circuits
- Energy Conversion Electromagnetics
- Introduction to Communication Systems
- Microprocessor-Based Systems Design

Computer Science
- Computer Architecture
- Data Structures
- Discrete Mathematics
- Object Oriented Programming

EXPERIENCE

Naval Sea Systems Command (NAVSEA)   July 2018 – Sept 2018
Computer Engineering Intern   Port Hueneme, CA
- Code audited the Advanced Operator Control Device (AOCD) software to show changes between specific Software Trouble Report (STR) features
- Scripted the software version control process, GitLab transitioning from CVS

Booz Allen Hamilton   June 2017 – Aug 2017
Summer Games Android Development Intern   Honolulu, HI
- Created an IoT Android app that gathers information from Bluetooth, Bluetooth Low Energy (BLE), Near Field Communication (NFC), and Radio Frequency Identification (RFID) devices
- Data analysis to provide user with Mapbox visualization of best possible option given the known resource location, personnel movement and future prediction models

Gemini North Observatory   June 2016 – Aug 2016
Akamai Electrical Engineering Intern   Hilo, HI
- Specified, designed, tested, implemented, documented and commissioned a Pulsed Width Modulated (PWM) motor current monitoring device for Gemini's Cassegrain Rotator and Wrap system
- Implemented a current transducer that feed into a Programmable Logic Controller (PLC) to have motor current information time-stamped and logged in the Gemini's Engineering Archive (GEA) System

PROJECTS

First Step   SLO Hacks Init() Hackathon
1st Place, Demoed Live   November 2018, San Luis Obispo, CA
- An Android mobile app that that connects homeless people to nearby jobs; uses GoogleMaps API and Adobe XD.

BlueFire   Workday Firecode Hackathon
3rd Place, Demoed Live   April 2018, San Luis Obispo, CA
- An Android mobile app that provides alternative communication, even when cellular service is down, through Bluetooth mesh networking.

ACTIVITIES

- Institute for Electronics and Electrical Engineering (IEEE)
  Community Outreach Officer 2018-Current
  Member 2015 - Current
- Society of Women in Engineering (SWE) Officer/Webmaster 2017 - Current
- University of Hawaii Society of Collegiate Leadership Achievement (SCLA) Honors Society Cofounder 2016 - 2017