Rosswell Tiongco

(714) 396-5986 • Anaheim, Ca 92804
rosswelltiongco@gmail.com

Education

California State University, Long Beach (CSULB) Spring 2020
Bachelor's of Science in Computer Engineering **Cumulative GPA: 4.0**

Oxford Academy, Cypress Spring 2016
High-School Diploma • Graduated with Honors

Projects

Arduino Uno Robotic Arm January 2017

- Assembled and programmed a robotic arm with four degrees of freedom through four 9g servos via Arduino and manually controlled by mouse or two joysticks

Poor Man's Macbook January 2017

- Applied creative thinking to outfit laptop through an LED circuit powered by the usb port upon opening laptop to a fixed angle

Presidential Tweets January 2017

- In a team of four, synthesized the use of Twitter, Esri , and IBM Watson APIs to chart a plot of tweets based on desired keywords on the United States Continental Map from a stored database to generalize tonality of a geographical location

Simple Computer Simulation December 2017

- Design, implementation, and synthesis of memory, multiplexers, arithmetic and logic unit modules in Xilinx ISE Design Tools written in Verilog HDL to simulate the interaction of processor and memory

Leadership and Activities

Industry Officer • Association for Computing Machinery • CSULB February 2017-Present

- Chapter liaison to foster communication with companies in industry to host speaker events
- Collaborate with other programmers when engaging in the weekly programming team
- Learning weekly web development in web jam sessions.

Associated Engineering Student Body Representative Officer• CSULB November 2017 - Present

- Collaborate and communicate with other College of Engineering clubs in weekly meetings to engage in multidisciplinary future projects
- Report club activities, goals, and objectives to the College of Engineering

Member • Institute of Electrical and Electronic Engineers (IEEE) • CSULB December 2016- Present

- Weekly IEEE freshman retention and leadership program to learn more about various electronics such as arduino and soldering with circuit boards
- Simulated a potentiometer through Arduino to gradually turning an LED on and off over a one second interval

Member• Society of Automotive Engineers • CSULB January 2017 - Present

- Assisted the measurement and design of a wheel and axle system in solidworks to facilitate proper wheel alignment when undergoing forces to produce a beneficial wheel camber
- Weld, research, spraypaint, and design in solidworks for the construction of an all-terrain and formula one car for bi-annual competitions

Project Co-Lead • Embedded Applications Technology Society • CSULB January 2017 - February 2017

- Facilitate effective communication and integration of multiple systems of a tethered submarine by combining power, electronic, and repulsion systems in a remotely operated underwater vehicle
- With a team, ensure tethered robotic submarine responds to user control when underwater by soldering and testing the power system to withstand being underwater
- Diagnose and repair electronic equipment such as powerstrips and desktop fans for fun or for use in future club projects

Technical Skills

Languages: Python, Verilog HDL

Software: Arduino IDE, Xilinx ISE Design Tools, Solidworks