Crystal Lai

10811 Keenan Pl. Stanton, CA • (714) 723-2056 • lai.crystal41@gmail.com
Linkedin: https://www.linkedin.com/in/crystal-lai/

Education

University of California, Irvine
Bachelor of Science in **Electrical Engineering**, Expected June 2019
Courses: Digital Systems and Logic, Network analysis, Discrete Time Signals, Semiconductors

Technical Skills

Electronics Labs
- Oscilloscopes, Soldering, Function Generators, DC Power Supplies, Arduino

Computer Applications:
- Languages: C, System Verilog
- OS/Platforms: Windows, Linux
- Software: PSpice, Vivado Design Suite, Librero SoC Design Suite, Mathematica, Microsoft Excel, Word, Powerpoint, Eagle CAD, SolidWorks

Work Experience

California Plug Load Research Center – Team Coordinator December 2016 - Present
- Manage team members by overseeing the completion of multiple projects, delegating tasks, and training new team members
- Debugging code and reviewing project tasks to ensure the quality of project
- Writing and editing training documents
- Reviewing and revising grant and research proposals

California Plug Load Research Center – Research Assistant September 2016 - Present
- Creating application notes by developing open-source templates for the use of education available online for other users
- Assisting graduate students in creation and achievement of energy efficiency projects
- Investigating new products and understanding initial workflow

Projects

PhotoLab 2017
- Developed software to edit photos at the command line in a Linux environment
- Attained a mastery of the C standard library, data structures, and dynamic memory allocation

Robotic Arm App-Note 2017
- Built a 6-axis FPGA driven Robotic Arm with the Microsemi Future Creative board with both System Verilog and C Programming
- Designed an Android application on Android Studio to control the Robotic Arm remotely through Bluetooth

Projector Buddy 2016 - 2017
- Worked collaboratively to conceptualize a companion device for a projector to track and conserve the energy consumption and usage
- Drafted a schematic for the prototype of the project to be printed and used for mass production

Wattmeter Board Library 2016
- Developed an open-source Arduino Library for quick and accessible use of the ADE 7953 for all Arduino users
- Programmed and tested the C code for the library and implemented the board in multiple energy tracking projects such as the Projector Buddy