

# Jerry Lee

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## EXPERIENCE

### CALIFORNIA PLUG LOAD RESEARCH CENTER

#### UNDERGRADUATE ENGINEER RESEARCHER

Jan 2018 - Current | Irvine, CA

- Building solutions to externally attach, retrofit, and extend upon existing consumer electronics to perform energy saving actions while minimizing human intervention
- Firmware and hardware include ESP32, MQTT connectivity protocol for IoT, various sensors using I2C communication protocol, FreeRTOS, and Eclipse

### VISTA IT | IT CONSULTANT INTERN

Jun 2016 - Aug 2016 | Temple City, CA

- Provided end user support for over 30 companies at a Microsoft partnered Information Technology firm with a team of 5 IT Specialist
- Assembled, diagnosed, and repaired electronic hardware to improve efficiency and optimize performance in the hardware's respective tasks
- Facilitated configuration and implementation of servers and networks

## PROJECTS

### UC IRVINE SOLAR CAR | TELEMETRY LEAD

Oct 2017 - Current

- Competing in the 2018 American Solar Challenge, an initiative to promote a greater understanding of solar energy technology and educational excellence in engineering
- Leading development of the telemetry system which uses various sensors, UART and CAN communication, GPS tracking, and corresponds with BMS system

### UC IRVINE MICROMOUSE | ROBOTICS COORDINATOR

Oct 2017 - Current

- Instructing students in hardware using micro-controllers, various sensors, motors, encoders, and concepts used in embedded systems and electrical circuits
- Software concepts such as PID Control, PWM, and path-finding algorithms
- Uses PCB design powered by an ARM Cortex Micro-controller

### RSHELL

Apr 2017 - Jun 2017

- Terminal shell processor with scripting capabilities similar to bash such as parsing commands, flags, and connectors
- Utilized composite design strategies, git branches, and agile methodology
- Created with focus in object-oriented design patterns and practices

## LEADERSHIP

### BELLIS MUSIC CAMP | COUNSELOR

Aug 2009 - Current | Angeles National Forest, CA

- Coached, mentored, and held responsibility for well-being and personal growth of a group of seven junior high music students for the duration of a week long camp
- Facilitated educational, bonding, and leadership building activities

## SOCIETIES

- |                |  |
|----------------|--|
| 2017 - Present | UC Irvine Elements Dragon Boat                           |
| 2015 - Present | Institute of Electrical And Electronics Engineers (IEEE) |
| 2015 - 2017    | Association for Computing Machinery (ACM)                |
| 2015 - 2016    | Society of Automotive Engineers (SAE)                    |

## EDUCATION

### UNIVERSITY OF CALIFORNIA, IRVINE

#### BS IN COMPUTER ENGINEERING

Dean's List

• Fall 17

2017-Expected Graduation: Fall 2019

Major GPA: 3.53

### UNIVERSITY OF CALIFORNIA, RIVERSIDE

#### BS IN COMPUTER ENGINEERING

Dean's List

• Winter/Fall 16

2015-2017

Major GPA: 3.43

## COURSEWORK

- Object-Orientated Systems and Programming
- Machine Organization and Assembly Language Programming
- Organization of Digital Computers
- Electrical Engineering Analysis
- Engineering Circuit Analysis
- Data Structures and Algorithms
- Software Construction
- Discrete Structures
- Digital Systems
- Logic Design

## SKILLS

#### Languages:

- C++ • C • Assembly (LC-3, RISC-V)
- Python • Verilog • System Verilog
- $\text{\LaTeX}$  • BASH • Swift • Shell • CSS/HTML

#### Software/Platforms:

- Git • Autodesk Eagle • Vivado
- Xilinx Design Studio • Keil uVision
- Linux Operating Systems

#### Hardware:

- PCB Design • Arduino/STM32 • ESP32
- Digilent FPGA Basys2/3

## INTERESTS

- Music • Power Weight Lifting
- Olympic Weight Lifting • Golf • Film
- Fashion • Art • Paddling (Dragon Boat)
- Space Exploration • New Technologies