

# Jerry Lee

## EXPERIENCE

### NIAGARA BOTTLING | R&D ENGINEERING INTERN

Jun 2018 - Aug 2018 | Ontario, CA

- Developed system to retrieve data during the manufacturing process that would help further optimize large scale production in speed and quality
- Contributed to research for future designs of products and manufacturing methods

### 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
- Software and hardware built on ESP32 using MQTT connectivity protocol for IoT apps, various sensors using I2C communication protocol, FreeRTOS, and Eclipse

### VISTA IT | INFORMATION TECHNOLOGY 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
- Facilitated configuration and implementation of servers and networks

## PROJECTS

### SOLAR CAR | TELEMETRY LEAD

Oct 2017 - Current

- Developing telemetry system to transmit crucial information from vehicle to team
- Competing in the American Solar Challenge Formula Grand Prix, an initiative to promote a greater understanding of solar energy technology and educational excellence in engineering

### MICROMOUSE | ROBOTICS COORDINATOR

Oct 2017 - Current

- Instructing students in hardware using micro-controllers and circuit design
- Software incorporates path-finding algorithms and closed-loop control
- Personal robot has placed in 4 out of 4 collegiate competitions

### RSHELL

Apr 2017 - Jun 2017

- Built a terminal shell processor with scripting capabilities similar to bash such as parsing commands, flags, and connectors using C++
- 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 - Aug 2017 | 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

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, IRVINE

BS IN COMPUTER ENGINEERING

Expected Grad: Winter 2020

Major GPA: 3.53

### UNIVERSITY OF CALIFORNIA, RIVERSIDE

BS IN COMPUTER ENGINEERING

2015-2017

Major GPA: 3.43

## SKILLS

Languages:

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

Software/Platforms:

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

Hardware:

- PCB Design • Arduino • STM32
- ESP32/8266
- Digilent FPGA Basys2/3

## INTERESTS

- Music Performance • Power Lifting
- Olympic Weight Lifting • Golf
- Cinematography • Fashion • Art
- Paddling (Dragon Boat) • Astronomy
- Astrophotography • New Technologies

## SOCIETIES

- Inst. of Electrical & Electronics Engineers
- Association for Computing Machinery
- UC Irvine Elements Dragon Boat
- Society of Automotive Engineers