Jerry Lee

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE
BS in Computer Engineering
Dean's List
•Fall17
2017-Expected Graduation: 2020
Major GPA: 3.53

UNIVERSITY OF CALIFORNIA, RIVERSIDE
BS in Computer Engineering
Dean's List
•Winter/Fall16
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
•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

EXPERIENCE

CALIFORNIA PLUG LOAD RESEARCH CENTER
Undergraduate Engineer Researcher
Jan 2018 - Current | Irvine, CA
- Building solutions that can externally attach to, retrofit, and extend upon existing consumer electronics to perform energy saving actions while minimizing human intervention
- Firmware and hardware include ESP32, MQTT IoT protocol, 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 led by Innovators Educational Foundation to promote a greater understanding of solar energy technology and educational excellence in engineering
- Leading development of the telemetry system which utilizes various sensors, UART and CAN communication, GPS, 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 electrical circuit concepts
- Software concepts such as PID Control, PWM, and path-finding algorithms
- Uses PCB design powered by an ARM core processor

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 camp
- Facilitated educational, bonding, and leadership building activities

SOCIETIES

2015 - Present	National	Institute of Electrical And Electronics Engineers (IEEE)
2015 - 2017	National	Association for Computing Machinery (ACM)
2015 - 2016	National	Society of Automotive Engineers (SAE)