KELLY LUE

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

SEP 2018 - JUN 2022

B.S. in Electrical Engineering, specializations in Digital Signal Processing, Communications, and RF Design Cumulative GPA: 3.85 | Dean's Honor List for All Quarters Relevant Coursework: C++/Advanced C, Digital Systems & Logic, Network Analysis w/ Lab, Discrete/Continuous Signals & Systems, Digital Signal Processing & Design, Semiconductor & Device Physics

Activities & Organizations: Solar Car, Science Olympiad at UCI, IEEE Eta Kappa Nu, Campuswide Honors

PROFESSIONAL & TECHNICAL EXPERIENCE

EE SYSTEMS VALIDATION & INTEGRATION INTERN, KARMA AUTOMOTIVE

- Use CANalyzer and create DBC files to help Powertrain, Battery, and Vehicle Integration teams simulate and test ECUs .
- Design logical schematics displaying pin-to-pin connections and high-level overview of vehicle circuitry using MS Visio .
- Write Python programs for more efficient CAN ID conversion & troubleshoot/maintain software release website using Flask

Regularly update and review vehicular standards documentation across engineering teams using SharePoint and Polarion SEP 2020 – PRESENT

TUTOR, UCI INTERCOLLEGIATE ATHLETICS

- Tutor Athletics Department students in STEM subjects (primarily calculus, statistics, physics, and computer science) •
- Communicate frequently and professionally with students to prepare adequate lesson plans before tutoring sessions
- Proficient at clearly explaining overarching concepts and providing useful, supplemental, and specific examples JUL 2020 - SEP 2020

PCB DESIGN, PERSONAL PROJECT

- Self-learned fundamentals of PCB design through online courses and earned EasyEDA course certification
- Upgraded UCI EECS70LB project to create a PCB version of an AM audio transmitter and amplifier using LM386 IC
- Designed 100-12V buck converter for high-to-low voltage conversion and a USB to TTL converter using the FT232R IC ELECTRICAL LEAD, UCI SOLAR CAR MAR 2020 - SEP 2020
 - Used Autodesk EAGLE to design and analyze schematics for high- and low-voltage vehicle safety circuitry •
 - Conducted quality assurance tests and simulations to validate safety circuitry and Li-Ion battery management w/ CAN
 - Created high-level wiring diagrams of primary high-voltage components such as BMS & MPPT for system integration
 - Managed a team of 15 students by regularly assigning tasks, scheduling check-ins, and developing standardized methods JAN 2019 - MAR 2020

SOLAR SUB-TEAM MEMBER, UCI SOLAR CAR

- Researched and developed solar cell encapsulation methods to optimize array voltage and current output •
- Designed solar array configuration to adhere to American Solar Challenge regulations and vehicle dimensions
- Created design document outlining manufacturing methodology, test results, data collection, and quality analysis

SEASONAL SALES ASSOCIATE, UNIQLO

- Excelled in interacting with shoppers by actively recommending products, outfitting, and promoting sales
- Developed understanding of marketing and gauging customer needs to successfully meet daily sales quota
- Maintained friendliness and composure in a fast-paced, demanding, and often stressful store environment

CO-FOUNDER, SCIENCE OLYMPIAD AT UCI

- SEP 2018 JUN 2020
- Led board members through scheduling, planning, and executing a large-scale regional Science Olympiad competition
- Oversaw day-of-event logistics while quickly and efficiently adapting to mitigate any potential event setbacks

SKILLS

Software: C, C++, MATLAB, assembly language, Linux shell CAD: EasyEDA, LTSpice, PSpice (OrCAD Capture), Autodesk EAGLE, KiCAD Hardware & Manufacturing: MIG welding, basic woodworking & machining, soldering, using various lab equipment (power supplies, signal generators, oscilloscopes, DMMs) General: GSuite, Microsoft Office, LaTeX, technical writing, teamwork, project management, CAN protocol Working Knowledge In: Python, HTML, CSS, Flask, VHDL, GitHub & Git

SEP 2020 - PRESENT

JUN 2019 - SEP 2019