LOGAN KESTING

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OBJECTIVE

Electrical and Computer Engineering graduate (June 2024) with specialized knowledge in power electronics and electrical testing, eager to apply skills and passion for sustainable energy solutions in the transportation electrification and microgrid sectors. Seeking an entry-level position in power electronics to contribute to the advancement of clean energy technologies and drive innovation in the evolving field of electrified transportation and resilient microgrid systems.

EDUCATION

Bachelor of Science, Electrical and Computer Engineering June 2024

Oregon State University, Corvallis, OR

GPA: 3.85

Relevant Coursework: Advanced Power Electronics, Power Systems Analysis, Electromechanical Energy Conversion

SKILLS

Hardware/Tools: DC-DC Converters, AC-DC Rectifiers, DC-AC Inverters, Soldering, Arduino Uno, Digital Multimeters, Oscilloscopes, Function Generators, Diodes, MOSFETs, BJTs, IGBTs, SCRs, Bootstrap Gate Drivers, RCD Snubbers

Processes: Printed Circuit Board (PCB) Design, Circuit Analysis, Failure Analysis, Project requirement development, thermal analysis, device power loss calculations, magnetics (inductor) design

Programming: C, C++, Python GUI, Arduino, SystemVerilog, Linux

Software: PLECS, MATLAB/Simulink, ADS, LTspice, Ngspice, Microsoft Office, Altium, KiCad, Intel Quartus Prime, KLayout, GitHub

Interpersonal: Collaboration in a multidisciplinary team setting, process documentation, excellent written and verbal communication, team leader

RELEVANT EXPERIENCE

President May 2022 - Present

Institute of Electrical and Electronics Engineers HKN - OSU Chapter, Corvallis, OR

- Leads IEEE honors society of top 20% of Sophomores, 25% of Juniors, and 33% of Seniors in ECE
- Planned and organized academic, career, and social events with industry and OSU faculty
- Tutored students in select Electrical and Computer Engineering courses

Process (Electrical Test) Engineering Intern Jun. 2023 - Sep. 2023

Analog Devices Inc., Camas, WA

- Developed new electrical test infrastructure for incoming automotive devices at ADI-Camas, yielding 99% statistical similarity in test results
- Integrated 28 equivalent electrical test routines from Legacy ADI to the Legacy Maxim system, employing skills in problem-solving and innovation
- Formulated an Excel document routing each Maxim test routine to its corresponding pin hookup, eliminating the need of coding skills for future test modifications
- Devised a log mode for LTC electrical tests to record test steps and noteworthy circuit values, significantly enhancing troubleshooting for errors and unexpected outputs

Info Tech Jul. 2022 - Sep. 2022

OSUsed Store, Corvallis, OR

- Developed customer service experience on the sales floor, assisting with electronics refurbishment

OSU Robotics Club Member Sep. 2021 - Jun. 2023

DAM Robotics, Corvallis, OR

- Utilized Altium to redesign the Rover's motor node
- Soldered, crimped, tested signal continuity using DMMs and oscilloscopes to rewire Mars Rover's arm
- Collaborated efficiently in a multidisciplinary team setting of 70 students
- Developed written communication skills through project documentation

PROJECTS AND ACHIEVEMENTS

"Where Are My Keys?" Senior Capstone Project Sep. 2023 - Present

- Designing custom PCBs for a Wi-Fi-based data retriever and GPS locator installed onto the OSU Robotics Club Mars Rover with an infra-red camera to detect hidden objects

G2V/V2H Dual Active Bridge (DAB) Converter Design Project Jan. 2024 - Mar. 2024

- Creating a bidirectional G2V/V2H PLECS model for a graduate power electronics project proposal at Oregon State University, employing a DAB DC-DC Converter topology to enable bidirectional power flow in a Level 2 EV charger

Two-Axis Robotic Arm Project Jan. 2023 - Mar. 2023

- Built a dual-motor robotic arm capable of accurately drawing straight lines, handling multi-point user input with speed modulation and utensil modification
- Derived a PyQT6 interface to handle receive and handle user coordinate/speed input
- Sent customized Python GUI scripts containing G/M commands to Arduino IDE via serial communication