

Cole Ferguson

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EDUCATION	Oregon State University , Corvallis, Oregon <i>Bachelor of Science</i> , Electrical Engineering Expected June, 2024 GPA: 3.89/4.0
	Cascade Christian High School , Medford, Oregon <i>High School Scholar's Diploma</i> June, 2019 GPA: 3.98/4.0
TECHNICAL SKILLS	Familiar Languages : LaTeX, C, C++, SystemVerilog Tools : Soldering Iron, DMM, Oscilloscope Software : Arduino, Solid Works, ModelSim, Altera Quartus, MATLAB, Microsoft Office Suite General : Digital Logic Design, Object Oriented Programming, Data Structures
EXPERIENCE	UA Local 290 Plumbers & Steamfitters : Work Study Apr - Jul 2018 Basic trades operations. Welding, Brazing, Electrical Wiring, Pipe Soldering, Oxy-Acetylene Cutting, Grinding, Deburring & Post-Processing.
	Gather Cafe : Cashier/Server/Busboy/Barista Jun - Sept 2021 I was in charge of all customer interaction services. My responsibilities included waiting on customers; taking orders; handling money and tabs; serving meals; pouring or brewing beverages; bussing and cleaning tables; restocking the utensil and condiment station; and maintaining the cleanliness of the dining area. Additionally, I was in charge of closing duties like mopping; putting away bakery case products; tallying receipts; emptying trash cans; counting the till; and helping the kitchen with prep.
	Pump House Burgers & Brews : Server/Busboy Jun - Sept 2021 I was in charge of serving customers' food. My responsibilities included distributing meals from the kitchen to the corresponding tables; waiting on customers; pouring and serving beverages; preparing phone delivery orders; maintaining clean dining areas; bussing tables; restocking utensil stations; cleaning bathrooms; and resupplying kitchen staff ingredients.
RELEVANT COURSES	Digital Logic Design, Intro to Computer Science I & II, Data Structures, Technical Writing, Electrical Fundamentals I, II, & III, Electronics I & II, Signals & Systems I & II, Transmission Lines, Electric and Magnetic Fields, Computer Organization & Assembly Language Programming
PROJECTS	Academic Project : Maze Solving Robot Oct - Nov 2019 Worked in a three person team to design and create a TekBot that could maneuver its way through a constructed maze. I was in charge of designing the base and mounting components, but took the lead and wrote the majority of the code and completely redid all wiring and connections. Implemented a mobile application to control the robot over Bluetooth. Technology/Tools : Solid Works, Soldering Iron, Arduino, MIT App Inventor
	Academic Project : PS-2 Keyboard Music Box May - June 2021 Worked in a three person team to design a circuit that would collect and decipher a PS-2 keyboard's key press output signals to generate a corresponding sound frequency through a speaker. I was in charge of the interface between the circuit and both the keyboard and speaker. Technology/Tools : Quartus Prime, ModelSim, Soldering Iron
EXTRA CURRICULAR ACTIVITIES	External Philanthropy Chairman : Kappa Omicron Chapter of Phi Gamma Delta Sept 2020 - Present
	Volunteer : Jackson Street Youth Services Sept 2020 - Present