

18 August 2020

S&C Electric Company  
1135 Atlantic Ave  
Alameda, CA 94501

Dear S&C Electric Hiring Team,

I am interested in your **Design Engineer (Electrical)** position. I have recently graduated from Portland State University with a bachelor's in electrical engineering. I achieved *summa cum laude* honors for my degree while working full time at as a production specialist at Micro Systems Engineering, Inc. I am also halfway done with my master's degree in electrical engineering with a focus in embedded systems.

At my current job I have completed multiple official validations, verifications, document updates, and have trained people on those document updates. I have done LabVIEW programming for live production systems and have performed LabVIEW code reviews. I have worked with Epson 6-axis robots and executed Epson RC+ robot training. I have hand wired mains voltage robot controllers and I have spent countless hours troubleshooting electrical and mechanical failures.

Most of my education has been focused on electrical engineering and digital circuits. I have experience programming microprocessors using ARM Assembly, C, C++, and Rust. I have taken multiple classes on Verilog, analog circuit design and digital IC design. I have completed projects in Verilog which involved programming traffic light controllers, Gray code counters, adders, and more.

I also have experience with designing electrical circuits for analog amplifiers and robotics. I have worked with others to design a light cube PCB which involved an Atmel Processor, a buck converter, and an IMU sensor.

In my homelab I have my own personal Rigol oscilloscope, DMM, soldering iron, and various other components to work personal and college projects. I have experience using the scope to troubleshoot I2C signals and high-speed analog circuits like phase-lock loops. I have implemented serial Bluetooth and WiFi communications for embedded systems and worked on finding the fastest way to transfer data over wirelessly.

I believe my experience is suitable enough to contribute to this position when I start working, and I know that I am more than capable of quickly learning any other necessary skills.

Best Regards,

Artem Kulakevich