



Summary

Results-oriented electrical engineering graduate with industry and design experience. Passionate about developing automated systems using exceptional technical knowledge and skills. Ready to face new challenges every day using proven analytical and communication skills.

Education

San Jose State University

BS Electrical Engineering (GPA 3.65)

05/2022

San Jose, CA

RWTH Aachen University, Germany

Electrical Engineering

Work Experience

Varian Medical Systems (Siemens Healthineers)

Final Test Technician

06/2018 – present

Palo Alto, CA

- Design and implement fully automated test fixture using microcontrollers, saving Varian ~\$150,000 annually and streamlining the tuning process
- Analyze and solve manufacturing stoppages by leveraging root-cause analysis
- Compose Manufacturing Instructions, Procedures, and Troubleshooting Wikis
- Tune, test, and troubleshoot linear accelerators and Radiotherapy machines
- Train and support new test engineers and technicians

Fry's Electronics

Computer Department & Operations Manager

02/2016 – 06/2018

Campbell, CA

- Managed a sales-driven Computer Department Team and store associates
- Grew sales across multiple stores by implementing a new training program
- Custom-built liquid-cooled workstations and mining systems (up to 12 GPUs)

Skills

Test Equipment:

Oscilloscope, Network Analyzer, Function Generator, Multimeter, Power Supply

Programming:

C, C++, Python, Java

Software:

LTSpice, MATLAB, Visual Studio, SolidWorks, SAP, PowerBi

Protocols:

I²C, SPI, UART

Electrical:

12-120V wiring, ESD, 3-phase power and transformers

Covered Topics:

ADC, DAC, Switch Mode PSUs, Electric Machines

Projects – [Portfolio Website](#)

Automated Tank Setup (Senior Project) – [Project Website](#) – Video: [YouTube](#) or QR:



Designed and implemented an internal product for Varian. It automates their Phantom Tank, used to tune Radiotherapy machines. Varian is adopting this system and saves at least \$150,000 annually in labor alone. This project helps accelerate the delivery of Varian's machines while making them more precise.

- Features: Auto-level tank in radial and transverse planes, auto-drive tank to the specified height for each test, auto-fill to appropriate water level, auto drain
- Parts: High-Torque Stepper Motors, Switch Mode PSU, Relays, Accelerometers, Hydro- and Ultrasonic sensors, Transceivers for wireless communication between Arduinos
- Designed and manufactured sheet metal using SolidWorks, 3D-printed user panel and enclosures

Autonomous Robot Cleaner (Freshman Project) – [Project Website](#)

Designed and built an automated Robot Cleaner using MATLAB. It uses a gyroscope and multiple ultrasonic sensors to navigate through a room while picking up items. It can distinguish between walls and obstacles and avoids them accordingly.