Jacob Voshage

Electrical and Computer Engineer

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Education

University of Missouri-Columbia
Expected Dec. 2020
Bachelor of Science, Electrical Engineering
Bachelor of Science, Computer Engineering
GPA: 3.52/4.00

Leadership and Activities

Team Lead
Student's Underwater Robotics Foundation (SURF)
Feb. 2018 - Current
- ➢ Designing the electrical system for the submarine.
- ➢ Participate in meetings and collaborate with other students.

FIRST Robotics Team Captain
Aug. 2012 - May 2016
- ➢ Lead and organized a team of 15 by running meetings and ensuring the team met their goals
- ➢ Qualified for state competition 4 years

FIRST Robotics Volunteer
2014 - 2016
- ➢ Worked at competitions to ensure the event ran smoothly

Technical Skills

Coding Languages
- ➢ C, C++, C#, HTML, Javascript, PHP, Python

Software
- ➢ AutoCAD, Visual Studio, PSpice

Systems
- ➢ Windows, Linux, PLC

Other
- ➢ PCB Design, 3D Printing, Soldering

Work Experience

Research & Development Intern
Plasmadent Inc., Columbia MO
June 2020 - Aug. 2020
- ➢ Designed and ran tests to verify the functionality, stability and durability of new developed software and hardware
- ➢ Worked with other members of the engineering team to solve problems

Design Certification Engineer Intern
Garmin International, Olathe KS
May 2019 - Aug. 2019
- ➢ Created automated testing script written in python to ensure designs work as intended in all possible input conditions
- ➢ Determine how designs operate in different environmental conditions
- ➢ Assisted updates to trace matrix reports

Crew Member
Culvers, Eureka MO
June 2015 - Jan. 2019
- ➢ Provided quality service and hospitality to guests
- ➢ Received Employee of the Month, Two occasions

Projects

WiFi Light Switch
Designed and created a device that continues to act like a normal light switch while also connected to a smart home network.

Electric Bike
Attempted conversion of a standard bike to an custom electrically assisted bike.

Audio Controller
Control speaker system volume from any IR remote or from a smartphone.