Ryan Wu

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Career Objective

A highly motivated and creative Junior computer engineering student seeking a summer internship to apply personal skills and experience in hardware and software development and grow with the team and company that I work with.

Skills

Strong analytical & problem solving
Highly proficient with C++, followed up by Python & Java
Good at logic digital design
Easily adaptable and very quick and devotedly learning

Work Experiences

Zolargus / Engineer Intern

May/2023 - August/2023, Remote

- Worked seamlessly with multiple teams designing a sun tracking system
- Helped implement the controlling module with Verilog and synthesis. Checked timing and quality.
- Developed software system for automatic testing and collected data for further analysis; i.e. timing slack, die size, run time

Education & Relevant Courses

Computer Engineering
Texas A&M University
College Station, TX
2021 - current

Computer Architecture & Design
Intro To Computer System
Data Structure & Algorithm
Signal And System
Introduction to Digital Design
Electrical Circuit Theory

Awards

USA Computing Olympiad Silver, USACO
FTC Robotic Design Award, Cisco FTC Tournament
Control Award, Google FTC Tournament

Projects

Security Alarm System

Sep/2022 - Dec/2022, A&M University

- Used state machine methodology and Verilog language to design functions of security alarm
- Synthesized Verilog to a netlist and used it to program a FPGA chip.

Sumo Bots

June/2021 - July/2021, Home

- Personally researched important aspects and parts of the robot and quickly learned random skills

required for building the robot like soldering
- Successfully built the robot within a week of starting the project
- Used Arduino programming language for motion control
- Developed a location tracking system using object detection devices and speed calculation programming to increase the chances of winning the competition

Autonomous FTC Tournament
Sep/2017-Dec/2017, Saratoga High School
- Lead the development of the autonomous program
- Fastest to learn how to build and connect an android app to the robot for instructions
- Fixed bugs within 24 hours
- Won Design Award in Cisco FTC Tournament. Won second place overall and control award in Google FTC Tournament for smartest, quickest, and most accurate automation.