Alexander Kwasinski

alexkwasinski@gmail.com | 217-904-8936 | Pittsburgh, PA | linkedin.com/in/alexander-kwasinski
Portfolio: alexander-kwasinski.github.io/portfolio/home.html | GitHub: Alexander-Kwasinski

EDUCATION

The University of Pittsburgh   08/2023 – 2027
BS in Computer Engineering | GPA: 3.85/4.0
- Institute of Electrical and Electronics Engineers, Society of Hispanic Professional Engineers
- Plus3 South Korea: Studied abroad while touring engineering companies, learning about smart systems, and experiencing culture

WORK EXPERIENCE

Math Tutor at Mathnasium   01/2022 – 06/2023
- Taught math to students from 6 to 18 years old
- Worked with up to 5 students of differing math levels and ages at once
- Helped improve students' grades by answering questions and teaching higher-level topics

High School Research Assistant   06/2022 – 08/2022
Worked with Dr. Ortega-Llebaria from the University of Pittsburgh
- Compiled information from over 100 participants using different data sources using Python scripts
- Used code to give accuracy scores to participants to ease readability
- Language of communication: Spanish

PROJECTS

University Rover Challenge: Robotics and Automation Society   08/2023 – present
Software and Electrical Team Leader
- Directing a team of 7+ to accomplish our software and electrical competition tasks
- Created embedded systems that interfaced with a Jetson Nano using the Ubuntu Linux operating system
- Incorporated Robotics Operating System (ROS2) to ease navigation and control
- Coded a GUI in Python to allow for user movement control
- Utilized Arduino, code, and hardware to control movement and gain data from the surrounding area

Micromouse Competition: Robotics and Automation Society   08/2023 – present
Electrical Subteam Member
- Working with a team to build and test a physical micromouse robot
- Wired and created firmware to confirm component viability
- Contributed to the research and purchase of necessary components
- Created a working prototype of the mouse to test maze-solving algorithms

Technology Student Association: Drone Challenge (UAV) Competition   08/2022 – 04/2023
- Placed 1st of around 40 teams in the state of Pennsylvania
- Organized meetings and tasks for a team of 4
- Designed and built a drone with a claw using CAD, electronics knowledge, and soldering
- Researched and bought components under a 500-dollar budget

RELEVANT COURSES

Current: ECE Problem Solving with C++, Digital Circuits and Systems, Linear Circuits and Systems, ECE Analytical Methods

Completed: Intro to Engineering Computing, Applied Discrete Math, Intro to Engineering Analysis

SKILLS

C++, C, Java, Git and GitHub, Linux, ROS2, Arduino, HTML, CSS, MATLAB, Excel, Microsoft Office, CAD, Electronics, Spanish

AWARDS AND SCHOLARSHIP

University of Pittsburgh: Swanson School of Engineering Dean and Term Honors List, Swanson Engineering Excellence Scholarship, Cathedral of Learning Achievement Scholarship

High School: College Board National Recognition Program Award: Hispanic, AP Scholar with Distinction Award