

Alexander Kwasinski

Computer Engineer

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🌐 Alexander Kwasinski 🔗 alexander-kwasinski.github.io/portfolio/home.html 🐙 Alexander-Kwasinski

PROJECTS

Pitt Society of Astronautics and Robotics (SOAR): University Rover Challenge

08/2023 – present

Software and Electrical Team Leader

- Directing a team of 5+ to accomplish our software tasks
- created embedded systems that interfaced with a Jetson Nano running on Ubuntu Linux
- Connecting systems to a Robotics operating system (ROS) for component communication
- Coded a GUI in Python to allow for easier rover control

Pitt Robotics and Automation Society (RAS): Micromouse Competition

08/2023 – present

Electrical Subteam Member

- Working with a team to build and test a physical robot
- Wired and created firmware to confirm component viability
- Contributing to the research and purchase of necessary components

Technology Student Association: Drone Challenge (UAV) Competition

09/2022 – 04/2023

- Placed 1st of around 40 teams in the state of Pennsylvania
- Designed and built a drone with a remote-controlled claw using CAD software
- Researched and bought components under a 500-dollar budget

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 all at once
- Helped improve students' grades by answering homework questions and teaching higher-level topics

High School Research Assistant

06/2022 – 08/2022

Worked under Dr. Ortega-Llebaria in the Linguistics Department at the University of Pittsburgh

- Coded a program (in Python) that compiles information from over 100 participants using different data sources (oral recordings, survey items, and test scores)
- Filtered data using Excel
- Language of communication: Spanish

EDUCATION

The University of Pittsburgh

08/2023 – present

Majoring in Computer Engineering

Pittsburgh, Pennsylvania

GPA: 3.85

North Allegheny Senior High School

08/2019 – 06/2023

High School Diploma

Wexford, Pennsylvania

Weighted GPA: 4.25

Unweighted GPA: 3.94

RELEVANT COURSES

Intro to Engineering Computing | Physics for Engineering 1 and 2 | Chemistry for engineering 1 and 2 | Calculus 1 and 2 | Applied Discrete Math | AP Computer Science A (High School) | Intro to Engineering Analysis | Plus 3 South Korea (Study Abroad)

SKILLS

— C++ | C | Java | Git | ROS | Arduino | HTML | CSS | MATLAB | Excel | CAD | Spanish— All skills are proficient or above

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