

# 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 Team Leader*

- Directed a team of 5+ to accomplish our software tasks
- Coding and wiring brushless DC motors and motor controllers using Arduino Boards and IDE
- Connecting motors to a ROS interface allowing 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

*Member of Electrical Subteam*

- Working with a team to build and test a physical robot
- Contributing to the research and purchase of necessary components
- Communicating with other subteams to test and ensure component compatibility

### Technology Student Association: Drone Challenge (UAV) Competition

09/2022 – 04/2023

- Placed first of around 40 teams in the state of Pennsylvania
- Designed and built a drone with a working claw to accomplish competition goals
- Researched and bought components under a 500-dollar budget

## WORK EXPERIENCE

### Math Tutor at Mathnasium

01/2022 – 06/2023

- Taught math to students from six to eighteen years old
- Worked with up to five 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 a professor 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: 3.84

### 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 Engineers 1 and 2 |  
Calculus 1 and 2 | Applied Discrete Math | AP Computer Science A (High School) | Intro to Engineering Analysis

## SKILLS

— Spanish | C++ | Java | ROS | Arduino | HTML | CSS | Excel | Microsoft Office — All skills are proficient or above

## AWARDS AND SCHOLARSHIP

Swanson School of Engineering Dean and Term Honors List | Swanson Engineering Excellence Scholarship | College Board National Recognition Program Award | AP Scholar with Distinction Award | Cathedral of Learning Achievement Scholarship