Alexander Kwasinski

Computer Engineer

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in 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
- Interfacing microcontrollers with Linux-based Jetson Nano
- Connecting components 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
Electrical Subteam Member
- Working with a team to build and test a physical robot
- Wired and tested code 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 first 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 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 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: 3.84

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 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

— Spanish | C++ | C | Java | Python | ROS | Arduino | HTML | CSS | MATLAB | Excel | CAD — 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