

1801 North 10th Street | Philadelphia | PA | 19122 | 610.350.1506

Education:

Temple University, College of Engineering, Philadelphia, PA

Bachelor of Science, Dual Major: Electrical Engineering & Computer Science

GPA: 4.00, **Honors College**, Dean's List: Fall 2019 – February 2022 Expected Graduation: May 2023

Technical Skills: Python, GIT, JavaScript, Java, HTML, C/C++ Programming, Test Driven Development, PostgreSQL, SystemVerilog, XML, Assembly Language, MATLAB, AutoCAD, SolidWorks, Visual Studio, Cybersecurity, Woodworking, Circuitry, Piano

Relevant Coursework: Operating Systems, Data Structures and Algorithms, Embedded Systems, Low-Level Programming, Processor Systems, Digital Circuit Design, Signal Processing

Technical Experience:

Lockheed Martin, King of Prussia, PA

May 2021 – August 2021

Software Engineering and Web Development

- Engineered and developed the user interface (UI) and features of a web app with a team
- Utilized test-driven development for debugging to confirm the program worked correctly
- Debugged and programmed front-end JavaScript and HTML and back-end Java to enhance UI design and to create tables for organizing data
- Implementation and creation of web sockets so the UI can communicate with the server
- Earned team of the release while working at this location

Temple Undergrad Research, Philadelphia, PA

November 2020 – October 2021

Simulating and Creating Autonomous Underwater Drones

- Created and coordinated an autonomous drone, boat, and underwater vessel with a team
- Programmed in C++, Python, and XML to create executable files and 3D models for simulation
- Utilized TensorFlow and Keras for image recognition and detection
- Utilized AWS's computing power to execute ROS and Gazebo

Temple Robotics, Philadelphia, PA

August 2019 – Present

Researching and Implementing ROS (Robot Operating System)

- Conducting extensive research on ROS and utilized the documentation on the ROS Wiki page
- Integrating Gazebo with ROS for simulation purposes, allowing for virtual testing
- Using SolidWorks to model the robot, and then create URDF's for simulations
- Programming in Java, C++, Python, and XML for robot control and 3D modeling

Volunteer Experience:

GOMAD Mission Trips, Dominican Republic

August 2015 – May 2019

Devising creative ways to help others

- Repaved bridges, designed and constructed benches, repaired roofs for better living conditions
- Collaborated and communicated with a team to collect donations
- Achieved a rotary award for community service based off these mission trips

Affiliations:

Temple Robotics

September 2019 – Present

Institute of Electrical and Electronics Engineers (IEEE)

August 2019 – Present

FTC Robotics

September 2018 – Summer 2019