

Thomas Downes

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EDUCATION

University of Pittsburgh, Pittsburgh, PA **Graduating: April, 2023**

Bachelors in Computer Science, Minor in Electrical Engineering

- GPA 4.0
- CS / ECE Coursework: Data structures, Computer Organization and Assembly, Discrete structures, Intermediate programming using Java, Calculus 1 and 2, Physics 1 and 2
- Technical Skills: Python (3yrs), C++ (2yrs), Java (1yr), Github

ACTIVITIES

SailBot

August 2019 - Present

Team lead - Software and Electrical

- I lead a team of 10 people in writing software for and controlling electronics in an autonomous sailboat
- Experience using and teaching others about Raspberry Pi, Arduino, Python, C/C++, Github, Radio Communication

SOAR

August 2019 - December 2019

- Engineering of a high powered rocket to compete in a national competition hosted by NASA, with a personal focus on avionics software.

PROJECTS

SailBot Website

August 2020

- Created a website for SailBot and hosted using github pages
- <https://sailbotpitt.github.io/>

The Profaned Cathedral

December 2018 - December 2020

- Developing a roguelike video game using Python and Pygame
- Implemented the ability to load mods at runtime and the ability to connect and play with friends over the internet

Swiftkey Soundboard

August 2019

- Used Python to develop a soundboard capable of receiving a file path and playing an audio clip via a keybinding while app is not focused