

Thomas Downes

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EDUCATION

University of Pittsburgh, Pittsburgh, PA

Graduating: April, 2023

Bachelors in Computer Science, Minor in Electrical Engineering

- GPA 3.98
- CS / ECE Coursework: Data structures and Algorithms 1&2, Formal Methods in CS, 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 (2yr), Assembly, Github

WORK EXPERIENCE

Research Assistant

May 2021–August 2021

University of Pittsburgh

- Assisted several professors and PhD students in research related to internet of things technology and people sensing

ACTIVITIES

SailBot

August 2019–Present

Team lead–Software and Electrical

- I lead a team of 8 people in writing software for and controlling electronics in an autonomous sailboat
- Experience using and teaching others about Raspberry Pi, Arduino, Python, C++, Github, and LoRa Transceiver Communication

PERSONAL PROJECTS

Websites

August 2020

- Portfolio website, Code and more information about projects can be found here thomas-d-pitt.github.io
- SailBot website <https://sailbotpitt.github.io/>

The Profaned Cathedral

December 2018–December 2019

- 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