

# Achilles Dabrowski

Greater NYC Area

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## EDUCATION

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**Duke University**, Durham, NC

GPA: 3.5/4.00

May 2022

- **Major:** B.S. in Computer Science and Electrical and Computer Engineering (ECE)
- **Relevant Coursework:** MATH216: Linear Algebra; ECE230: Microelectronic Circuits & Devices; ECE280: Intro to Signals and Systems; ECE250: Computer Architecture; COMPSCI308: Advanced Software Design & Implementation; MATH238: Data Analysis and Decision Sciences; COMPSCI310: Intro to Operating Systems; ECE590: Human-Centered Computing (Graduate-level); ECE270: Fields and Waves

## WORK EXPERIENCE

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**CACI**, *Computer Science/Electrical Engineering Intern*, CACI International, Inc.

May 2020 – Aug. 2020

- Developed a web application, Weaver, that provides a simple user interface for building complex private networks that obfuscate traffic using VPNs
- Product will connect various virtual machines served by cloud platforms such as GCP, AWS, and Azure
- Leveraged a Go web server to populate Go templates that are served to the client
- Nodes can be dragged and dropped into the canvas with JointJS to easily visualize the network and configure it

**Con Edison Clean Energy Businesses**, *IT Summer Intern*, Con Edison, Inc.

Jun. 2019 – Aug. 2019

- Created a new Ethics & Compliance Intranet site with the input of the COO
- Embedded my own custom OSIsoft PI solar and wind asset monitoring displays on two Intranet sites
- Proposed solutions to the CEO's Intranet site action items to enhance the site experience
- Collaborated with interns to develop and present a proposal to reduce financial losses due to solar power curtailment and inverter clipping through the strategic use of energy storage

## PROJECT EXPERIENCE

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**UAS Software Control Interface**, *Independent Study (Collaborative)*; Python, Olympe, Sphinx, Gazebo

Aug. 2020 – present

- Controls Parrot ANAFI at a distance with first-person view (FPV) as part of the Rainforest XPRIZE competition
- Arcade-style controls limit the motion of the drone to the direction that its camera is facing along with turns

**EASEPAPR**, *Personal (Collaborative)*; Fusion 360, Markdown

Mar. 2020 – May 2020

- Designed and currently improving an open-source Powered Air Purifying Respirator (PAPR) device that may be used as PPE in the event that other forms of conventional PPE are unavailable
- Constructed largely using off-the-shelf consumer components that focus on the powered filtration unit

**Gyft**, *Hackathon (Collaborative) – Hack the Northeast 2020*; Flutter, Dart, Firebase

Jun. 2020

- Android and iOS app that allows businesses to start selling online gift card/certificates for their business
- Designed backend using Dart with Flutter, which also included connecting to Firebase database to store credentials and populate participating business list in the app using information stored in database

**Quantum Art**, *Hackathon (Collaborative) – 2020 Qiskit Summer Jam – NC*; Python, Qiskit

Jun. 2020

- Generates a new image to create art using pixel data from input images, superposition on quantum registers, and a pixel color decoding process
- Designed and implemented the UI using the Tkinter library

## LEADERSHIP EXPERIENCE

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**Duke Academy of Model Aeronautics (AMA)**, *President Elect*, Duke University

Mar. 2020 - present

- AMA aims to make unmanned aerial systems (UAS) more accessible to students on campus from a myriad of technical and academic backgrounds via enrichment activities and participation in AUVSI-SUAS

## SKILLS

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**Languages:** Java, C++, C, Go, JavaScript, HTML, CSS, Python, Dart, MATLAB, MIPS, Markdown

**Technologies:** Git, Linux, Terminal, [Google Cloud](#), BigQuery, [Microsoft Azure](#), Figma (UI design), MIPS, MATLAB, Arduino, Fusion 360, car audio, car infotainment