

# Michael Dasaro

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## EDUCATION:

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**Stevens Institute of Technology**, Hoboken, NJ

Masters of Engineering in Electrical Engineering – Robotics and Automation Systems

May 2023

Bachelors of Engineering in Computer Engineering

GPA | 3.943

Graduation: May 2022

Coursework | Autonomous Mobile Robots | Control Theory, Image Processing, Computational

Data Structures & Algorithms, Microprocessor Systems, Computer Architecture, Digital System Design

## SKILLS:

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### Software:

AutoCAD	Inventor	Fusion 360	Solidworks	3D Printing	Linux	Windows
VirtualBox	Git	Visual Studio	Sharepoint	Photoshop	Excel	Vivado

### Programming Languages:

JavaScript/HTML (8 years)	Java (4 years)	Python (4 years)	Lua (2 years)
C++/.NET Framework/Qt (3 years)	SQL (1 year)	ARM Assembly (1 year)	VHDL (1 year)

## EMPLOYMENT:

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**MITRE** | *Autonomous Engineering Intern*

2022

Data analytics and machine learning research on RELLIS 3D LIDAR point clouds using deep neural networks to classify traversability of unknown offroad environments.

**Herrick Technology Laboratories** | *Electrical Engineering Intern*

2021

Worked on government contracted software-defined radios, specifically on encrypted removable memory modules and tools for reusing hardware with classified information.

**Valley Bank** | *Application Development Co-op Student*

2020

Worked as a Software Engineer on internal projects including .NET web-apps, PowerApps, and data manipulation. Software is used daily for logging and data manipulation.

**IEEE Historical Society Intern:** Created research articles and assisted with exhibits.

2019-2020

**OasisVRX:** Assisted the startup company with setup and recommendations for VR.

2019-2020

## INDEPENDENT PROJECTS:

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**Light-Blue: Winner of HackRU Spring 2021 Maverick Track:** Built and programmed a chess-playing robot on the frame of a 3D printer with a claw, webUI, and computer vision for recognizing game states.

**Boost: Winner of HackRU Fall 2020 Maverick Track:** A 2D racing game complete with a map creation tool and evolutionary neural network that learns to race around any track using the Python NEAT library.

**Rutgers Class Mapper:** Developed at HackRU Fall 2019, Class Mapper routes your weekly schedule around campus, accounting for bus routes and walking directions, displayed with Google maps API.

**Inquiry:** Developed at PennApps XVIII to enable students to communicate with and assist each other efficiently on schoolwork. The app has unique features such as a whiteboard and Q&A section.