**Michael Dasaro**

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**EDUCATION:**

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

-Masters of Engineering in Electrical Engineering – Robotics and Automation Systems May 2024

-Bachelors of Engineering in Computer Engineering | GPA: 3.943 May 2022

**Coursework** *|* Autonomous Mobile Robots, Control Theory, Linear Algebra, Modeling and Optimization, Image

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

**SKILLS:**

**AI:**

Locally-run Llama2 API integration, GPU-accelerated Machine Learning, TensorFlow / PyTorch Configuration

**Programming Languages:**

Python MATLAB JavaScript/HTML Java C++ SQL ARM Assembly

**Software:**

AutoCAD Inventor Fusion 360 SolidWorks 3D Printing Linux Windows

ROS Git Virtual Box Visual Studio Photoshop Excel Vivado

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**EMPLOYMENT:**

**MITRE** | *Autonomous Systems Engineer 2022-*

* Developed an intelligent Dashboard using Shiny for Python that enables Army Test and Evaluation Command to display, organize, and edit large datasets. Features include interactive maps and generative AI suggestions.
* Modified, implemented, and retrained GPU-accelerated machine-learning from Convolutional Cross-View Pose Estimation ([CCVPE](https://arxiv.org/pdf/2303.05915.pdf)) for use on offroad ground vehicles with the Rellis3D dataset.
* Researched and implemented deep learning neural networks for semantic segmentation of LIDAR point clouds to advance autonomous technology for offroad ground vehicles using Python and ROS.

**Herrick Technology Laboratories** | *Electrical Engineering Intern 2021*

Developed encrypted removable memory modules and tools for reusing hardware with classified information on software-defined radios.

**Valley Bank |** *Application Development Co-op Student*  *2020*

Developed several internal projects including .NET web-apps, PowerApps, and data manipulation tools.

Software is used daily for logging and automated data manipulation.

**IEEE Historical Society Intern:** Created research articles and assisted with exhibits. *2019*

**OasisVRX:** Assisted the startup company with hardware and software setup for Virtual Reality experiences. *2019*

**INDEPENDENT PROJECTS:**

[**Light-Blue:**](https://devpost.com/software/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:**](https://github.com/JackLowry/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**](https://devpost.com/software/classmapper)**:** 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**](https://devpost.com/software/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.