**Michael Dasaro**

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**EDUCATION**

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

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

-Bachelor of Engineering in Computer Engineering | GPA: 3.9 May 2022

**EMPLOYMENT**

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| **MITRE** | *Intermediate Autonomous Systems Engineer*   * Independently managed two interns and led a team of 3 full-time employees. Mentored seven additional interns professionally and administratively. * Developed a ML-powered human-in-the-loop GPS reliability demonstration test analysis tool to greatly accelerate the process of validating GPS receivers using Shiny for Python, Tensorflow, and Scikit-learn * Developed an intelligent dashboard using Shiny for Python that enables Army Test and Evaluation Command to display, organize, and manipulate 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. | 2022- |
| **Herrick Technology Laboratories** | *Electrical Engineering Intern*  Developed encrypted removable memory modules and tools for reusing hardware with classified information on software-defined radios. | 2021 |
| **Valley Bank |** *Application Development Co-op Student*  Developed several internal projects including .NET web-apps, PowerApps, and data manipulation tools.  Software is used daily for logging and automated data manipulation. | 2020 |
| **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 |

**SKILLS**

**AI**

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| --- | --- | --- | --- |
| Locally run Llama API integration | Local image generation | GPU-accelerated Machine Learning | TensorFlow / PyTorch Config |

**Software**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Python | Shiny | TensorFlow | Scikit-learn | Docker | VirtualBox | Git | ROS | Linux |

**INDEPENDENT PROJECTS**

**Manifold3D**: Operate a small 3D printing business through Etsy and a Shopify website. All prints are models I’ve designed in FreeCAD and are useful items for hobbies I enjoy including sim racing, lock picking, and balisong flipping.

[**Hackathon Projects**](https://devpost.com/Michael73MGD): Chess-playing robot with computer vision | 2D racing game with evolutionary neural network | Automatic scheduler with Gmaps API | School-focused communication app