**Michael Dasaro**

Boston, MA | [michaelgdasaro@gmail.com](mailto:michaelgdasaro@gmail.com?subject=Linked%20from%20Resume) | [github.com/Michael73MGD](https://github.com/Michael73MGD) | [linkedin.com/in/michael-dasaro](http://www.linkedin.com/in/michael-dasaro)

**EDUCATION**

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

-Master of Engineering in Electrical Engineering – Robotics and Automation Systems | GPA: 3.9 May 2024

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

**EMPLOYMENT**

|  |  |
| --- | --- |
| **MITRE** | *Intermediate Artificial Intelligence Engineer*   * Independently managed several 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 software 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 |

**SKILLS**

**AI**

|  |  |  |  |
| --- | --- | --- | --- |
| Local LLM/VLM/Agentic AI | Local image generation | GPU-accelerated Machine Learning | TensorFlow / PyTorch Config |

**Software**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Python | Shiny | TensorFlow | Scikit-learn | Docker | VM | Git CI/CD | ROS | Linux |

**INDEPENDENT PROJECTS**

[**Manifold3D**](https://manifold3d.etsy.com/): Operate a small 3D printing business through Etsy selling practical models I create for hobbies such as sim racing, lock picking, balisong flipping, watch collecting, and espresso making.

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

**Miscellaneous Interests**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cars (Modding, Autocross) | Hardware Modding | Archery | 3D Printing and Design | Homelab Server | Coffee |