Michael Dasaro

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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*   2022 –

- Independently managed four interns and led a team of three 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 significantly 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) 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 software 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 which are used daily for logging and automated data manipulation.

SKILLS

AI

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

Software

Python	C++	Docker	Virtualization	Linux	ROS	Git CI/CD
Data Analysis	Visualizations	Backend	Networking	Data Management	SQL	Unit Testing

INDEPENDENT PROJECTS

Manifold3D: Own and 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: Chess-playing robot with computer vision | 2D racing game with evolutionary neural network | Automatic scheduler with Google Maps API | Academic-focused communication app

Miscellaneous Interests:

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