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 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) 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. 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

SKILLS

AI

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: Chess-playing robot with computer vision | 2D racing game with evolutionary neural network | Automatic scheduler with Gmaps API | School-focused communication app