Michael Dasaro

Boston, MA | michaelgdasaro@gmail.com | github.com/Michael73MGD | linkedin.com/in/michael-dasaro

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 MITRE** | Intermediate Autonomous Systems 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 tools for reusing hardware with classified information on softwaredefined 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** ΑI Locally run Llama API integration Local image generation **GPU-accelerated Machine Learning** TensorFlow / PyTorch Config **Software** TensorFlow Python Shiny 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