**Myles A. Robinson**

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**EDUCATION**

**Carnegie Mellon University** Pittsburgh, PA

MS in Artificial Intelligence Engineering Dec 2025

BS in Mechanical Engineering May 2023

Minor in Robotics

**RELEVANT EXPERIENCE**

**Apple Inc.** | **iPhone TechOps Co-op** | Cupertino, CA Feb 2024-Aug 2024

* Spearheaded predictive maintenance project for smart manufacturing
* Developed a scalable ML pipeline to predict machine downtimes using factory data, minimizing production loss and operational expense across iPhone manufacturing lines
* Benchmarked VisionOS/MacOS/IOS application used to visualize manufacturing lines from anywhere at anytime

**Rivian Automotive Inc.** | **Manufacturing Engineer Co-op** | Normal, IL May 2023-Present

* Revamped 3D positioning vision systems on their sealer line by performing root cause analysis on vehicle deformation data using the NumPy and Pandas Python libraries
* Integrated with contractor to design and commission vehicle hanger dampening solution to stabilize suspended vehicles; quantified vehicle sway by programming a distance sensor and filtering and cleaning noisy data

**Ford Motor Company** | **Ford Ion Park Formation, Aging & Test Intern** | Dearborn, MI Summer 2022

* Collaborated with engineers in developing Formation, Aging, & Test pilot line to stabilize critical Solid Electrolyte Layer in cells for Ford F-150 Lightning and future EVs
* Benchmarked incoming automated storage and retrieval systems to optimize efficiency based on system models
* Communicated with original equipment manufacturers to give in-depth system analyses to team members

**PROJECTS**

**NOMOW – Autonomous Lawn Mower** | **Robotics Capstone** Fall 2022-Spring 2023

* Spearheaded prototyping, design, and build of entire chassis, shell, and drivetrain for autonomous lawnmower
* Programmed path planning algorithm to sweep an arbitrary space in an efficient manner
* Assisted in training and optimizing convolutional neural network for obstacle detection

**Urban Search & Rescue Robot | Introduction to Robotics** Spring 2022

* Built and programmed tracked robot to overcome obstacles on a multi-level wooden course
* Utilized computer vision to decode fiducial markers hidden in course and find exit

**Research**

**Gecko-Inspired Robot| CMU Prof. Jayan’s Research Laboratory** Fall 2022-Spring 2023

* Designed and controlled a mechanical test-rig to measure the grip force of our samples on various surfaces to test the capability of our climbing robot

**Would You Trust a (Faulty) Robot? | CMU Human Computer Interaction Lab**

* Measured the effect of erroneous robotic behavior on human perception and trust of the robot when the participant was asked to perform unusual tasks

**SKILLS**

**Programming & Applications:** Python, C/C++, Pytorch, Tensorflow, SQL, Docker, Google Cloud

**Machines**: Rabbit Laser Cutter, Mill, Manual Lathe, Drill Press

**LEADERSHIP & ACTIVITIES**

**National Society of Black Engineers (NSBE)**2019-Present

* Contact underclassmen and alumni to further connections in the broader engineering community