

TIMOTHY MARSHALL (Tim)

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marshallt6.github.io/portfolio/

EDUCATION

Bachelor in Electrical Engineering | University of Dayton, Dayton, OH | May 2025

- Relevant Courses: Control Systems, Electrical Communications, Intro to Robotic Manipulators, Analog/Digital Signals & Systems.

Associates in Automotive | Sinclair Community College, Dayton, OH |

- Relevant courses: Intro to Hybrid Systems (Automotive), Automotive Electrical and Electronics, Engine Systems, Automatic Transmission systems, Fundamentals of tooling and machining.

CO-OP EXPERIENCE

Engineering Co-op | University of Dayton Research Institute, Dayton, OH 03/2024 – 02/2025

Autonomous quadcopter (drone) flight path programming. Project where we had a drone take off autonomously, fly around an object, and scan it, then send the model to a 3D printer. Developed code and maintained a public GitHub

WORK HISTORY

Customer Service & Delivery | Dominos, Papa Johns & Doordash, Miamisburg, OH 08/2009 – Present

Managed operations, trained employees, scheduled shifts, and resolved customer concerns. Maintained excellent driving record while delivering products and handling transactions

Automotive Technician | Grismer Tire & Auto Service, Centerville, OH 10/2015 – 09/2016

Walker Toyota, Miamisburg, OH	05/2014– 10/2015
Quikstop Oilube, Moraine, OH	05/2012-05/2014

Repaired and maintained customer vehicles of varying makes and models. Filled out repair orders and return them with proper documentation of work performed and recommendations of diagnosis/repair

SKILLS

MATLAB, Python, Linux, ROS2, GitHub, Arduino, JAVA, C++, PX4, Docker, SolidWorks, 3D Printing.

PUBLISHED RESEARCH

Ensemble Methodology for Automated Machine Predictive Maintenance Classification

ieee NAECON July 2024

<https://ieeexplore.ieee.org/document/10670632>

PROJECTS

- Search and rescue robot
- Personal Robot