

Matthew Wilkins

Objective	Obtain a co-op position that will utilize Electrical or Mechanical Engineering skills available from late May through December 2025.
Education	Rochester Institute of Technology , Rochester, New York Mechatronics Engineering Technology Bachelor of Science (Expected May 2028) GPA: 3.2/4.0
Skills	Computer: Autodesk Fusion 360, SolidWorks, Multisim, MatLab, Microsoft Word/Excel/PowerPoint, Optical Comparator Measurement Machine Fabrication: Tormach CNC Mill, Bridgeport Vertical Mill, and Lathe
Courses	Current: Electronic Devices Completed: Machine Tools Lab, Manufacturing Processes, Circuits 1, Engineering Communication and Tolerancing, Introduction to Digital and Micro Systems
Projects	Bits 'n Bytes (2024 - Present) Collaboration to make AI-Powered Smart Store. Designed and crafted a wooden cabinet housing electronics and store items. Wired and routed electronics. 3D modeled and printed camera and door components. Air Engine (Spring - Fall 2024) 3D modeled an air engine using Geometric Dimensioning and Tolerancing (GD&T) in Solidworks, and later manufactured in aluminum and steel on a lathe/mill. Aerial Search and Rescue Modular Thermal Payload (Fall 2022 - Spring 2024) Designed and prototyped a quick-release custom-stabilized thermal detection payload using TensorFlow computer vision with modular capabilities to be mounted beneath a mid-to-large drone. Payload expansion includes drop kits and flood light support for fast-action medical and shelter supplies. Porsche 986 550 Spyder Restoration (Summer 2021) Restored internal and external aesthetics and mechanical components of a 2004 Porsche 986 Boxster S 550 Spyder Anniversary Edition.
Experience	Split Second Shutter , MD Photographer/Videographer (2017 – Present) Photographs and edits sports, weddings, graduation, and other events. Produces and edits sports, wedding, graduation, and other event films. Wilkins Automotive , Glen Burnie, MD Express Service Mechanic, Sales, Marketing (Summers 2018 – 2023) Serviced GMC, Buick, and Subaru Vehicles. Produced media for point of view driving/reviews and photography for social media and sales homepage.
Activities	Computer Science House , RIT 3D Printer Administrator Director (Fall 2023 - Present) Maintain 3D printers, lubricate and clean components, rebuild mechanical and gantry systems, perform presentations/seminars on operation and safe use. perform presentations/seminars on 3D design and modeling. First Tech Challenge: First Robotics Co-lead Robot Designer/Engineer (Fall 2019 - Spring 2023) Co-lead design team for FTC team 3886. Designed/3D modeled robot components to be manufactured, built, and tested for prototyping and final competition robot.
Interests	Robotics, Tinkering, Electronic/Automotive Maintenance, Drone Creation and Flight, Photography/Video/Cinematography Creation and Editing, Autocross