

# Jack Greiner

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## Objective

Obtain a co-op position that will utilize skills in Mechatronics Engineering. Available January through August 2024, in the spring and summer.

## Education

**Rochester Institute of Technology**, Rochester, New York  
Mechatronics Engineering Technology, Bachelor of Science (Expected May 2027)

## Skills

Mill & Lathe, CNC, SolidWorks, Fusion 360, Onshape, Cura, Python, C#, C++, Java  
Android Studio, Arduino, MATLAB, Microsoft Word/Excel/PowerPoint

## Courses

**Current:** Automation Control Systems, Mechanics for Mechatronics, Electronic Devices  
**Completed:** Characteristics & Foundation of Metals, Circuits I, Machine Tools Lab, Manufacturing Processes, Digital & Microcontroller Systems, Engineering Communication and Tolerancing, Workplace Professionalism, First Year Innovation

## Projects

### Current Project - Spider Bot

Constructed an RC hexapod with 18 total joints. Received funding for this independent project through the Multidisciplinary Robotics Club. Designing the app for control, coding in C++ on Arduino IDE, and completed the CAD models and 3D prints for the physical structure.

### Eagle Scout Project - Building Bridges

Presented, communicated, and led the entire process of building a bridge on a hiking trail, from drawing a schematic to collecting all the wood, to the building. Led a team in the process of making a bridge through 3 work parties.

### CNC Machining - Number Block Project

Created a part from the given dimensions on SolidWorks. Using Solidworks CAM to create the G-code to operate a 3-axis CNC Machine. Machined the part through collaboration with my team.

### Renewable Energy Project

Worked with my team to create a renewable energy source, from the BOM to the final product. Managed risk mitigation, taught others about tools, and learned essential verbal and DIY skills.

## Experience

### Evergreen Woods, North Branford, CT

Dishwasher (Summers 2022 – Present)

Worked as a dishwasher for the local retirement community

Maintained a constant and consistent pace in order to be cautious of others in the kitchen and ensure the safety of all personnel, especially while handling hot pots and plates.

### Soundview Family YMCA, Branford, CT

Lifeguard (June 2019 – August 2021)

Completed essential maintenance and repairs to keep pools functioning.

Maximized customer satisfaction by greeting pool patrons and resolving issues promptly.

## Activities

**Multidisciplinary Robotics Club**, Treasurer, Combat Robotics Fall 2022 – Present

Design and build a battle bot to fight with other robots in a massive bracket-style competition.

Role: Design, Machine, and Assemble Parts. Centered currently on the weapon drive system.

**RIT Baja Team**, Parts Machinist

Fall 2022 – Present

Design/build an off-road vehicle. Role: machine parts to be used on the vehicle for races.

## Interests

Tinkering, Robots and Artificial Intelligence, Integration of Electronic, Mechanical and Computer Systems, FIRST Robotics, Fencing, Camping, Hiking, and Cycling