Nicholas Krah

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Education

Rochester Institute of Technology **(Aug 2024 - May 2029)**
- BS/ME, Mechanical Engineering - Aerospace Concentration, Comp Sci Minor
- GPA: 3.9, Dean's List
- Relevant Courses: Statics, Eng Design Tools, Eng Mechanics, Comp Sci 1, Programing for Eng

Professional Experience

Hannaford Supermarkets, Yarmouth, ME **(April 2023 - Aug 2024)**
Produce Associate, worked over summer breaks
- Assist customers with finding items and giving general information
- Stock produce, calculate shrinkage, provide basic maintenance

Yarmouth Rec Camp, Yarmouth, ME **(June 2021 - Aug 2022)**
Counselor in Training, worked over summer breaks
- Assisted in camp programs for children ages 5-12
- Helped supervise numerous activities: outdoor games, arts and crafts, swimming. Led field trips.

Skills

- **Hardware**: General Manufacturing, Precision Machining, 3D Printing, Soldering, Laser and CNC Manufacturing, MIG welding
- **Software**: OnShape, Python, Matlab, C++, Javascript, Google Suite, MS Excel

Projects & Activities

RIT SPEX (Space Exploration) **(Aug 2024 - present)**
- CubeSat; Launching a 1U cubesat into LEO to compare radiation detection methods
- Payload lead; designing radiation detectors to fit on cubesat

Engineering House **(Aug 2024 - present)**
- All Seeing Eye:
  - An articulating arm that uses machine vision to track objects
  - Mechanical team: rebuilding arm and testing new movement methods to reduce strain on motors
- Human Hamster Wheel:
  - Human sized hamster wheel, helped plan new wheel and showcase at Brick City

RIT Metalworkers **(Aug 2024 - present)**
- Learning to weave chainmail and construct plate armour

Robotics Club: VRC **(Sept 2017 - June 2024)**
- Co-lead 6 person team to State semi-finals
- Cad Designer, Builder, Coder, Competition Drive, and Notebook Scribe
- Awards: 4 Tournament Champions, 3 Skills, 1 Excellence, 1 State Championship Think Award, 2 Design

Chime Machine
- Tasked with constructing a machine to play a selected song with limited resources
- Programed, and assisted in design and construction of machine

Floating Wind Turbine Platform (Windstorm Challenge, Umaine) **(Feb 2024 - May 2024)**
- Competed in competition to design and build a stable floating platform
- Responsible for general planning, calculations, and manufacture

Electric-Car **(Sept 2023 - June 2024)**
- Built and electric car from ground up to compete in Electrathon America
- Designed and built backend: motor, ballast, battery support, and wiring
- Team of 12; Placed 5th place out of 40