Pavel Peshkovsky

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EDUCATION

Rochester Institute of Technology Rochester, NY
Mechanical Engineering Technology Anticipated Graduation – *May 2026*
GPA: 3.6
Relevant Coursework: Machine Design | Thermo 2 | Robots & Automation | Project Management | Measurement Systems & Controls | Advanced Mechanics | Dynamics | Fluid Mechs & Fluid Power | Stats 2 | Non-Metallic Materials | Foundation of Metals

SKILLS

Software: Solid-Works, MathCAD, MATLAB, AutoCAD, Minitab, Microsoft Word/Excel/PowerPoint, Automation Studio
Foreign Languages: Russian, Spanish

EXPERIENCE

Student Employee | *Teaching Assistant* | *Grader* | *Tutor* | Rochester, NY *August 2024 - May 2025*

- Teaching assistant for Foundation of Metals lab and Mechanical Dynamics with Applications.
- Welding Instructor for Foundation of Metals lab, taught students to weld a specimen in preparation of a tensile test.
- Tutored students for Foundations of Metals, Mechanical Dynamics with Applications, Strengths of Materials, Statics.
- Graded In-Class assignments | Homework Assignments | Exams for Mechanical Dynamics with Applications.

Borg Warner | *Test Engineer Intern* | Ithaca, NY *June 2023 - December 2023*

- Received and tested timing drive and VCT components and assemblies
- Interacted with international customers and manufacturers for global correlation and test requests
- Assisted in the development of flowbench correlation and timing components products
- Used Solid-Works to perform basic Research & Development and fixture design

Industrial Sonomechanics | *Intern* | Miami, FL *September 2020 - July 2021*

- Assembled, tested and verified internals of ultrasonic transducers and ultrasonic systems
- Balanced and working multiple R&D projects, De-gasing devices, Impeller development, Increasing overall efficiency of warehouse operations
- Ran troubleshooting on malfunctioning systems or components

Cucyo Farms | *Farm Hand* | Middletown, NY *January 2014 - August 2020*

- Maintained and repaired farm equipment and structures on land | Fencing | Livestock care

PROJECTS

B.E.A.S.T *August 2024 - December2024*

- Design and develop electro-mechanical impact system focused around a rotary encoder designed to measure force of impact
- Used CAD software to model and build the frame and impact system
- Worked with peers to develop arduino code to process and filter data from rotary encoder

Fatigue Analysis *November 2024 - December2024*

- Utilized ANSYS FEA to perform a failure investigation of an assembly for a bracket eye-bolt system
- Utilized MathCAD and MATLAB to perform all hand calculations

Vertical Axis Wind Turbine *September 2021 - December 2021*

- Used SolidWorks to design a system to convert kinetic energy to electrical energy using scrap materials
- Worked with peers to develop an electrical system that could efficiently generate electrical power

PROFESSIONAL ASSOCIATIONS

RIT SAE Baja *Manufacturer* | *CVT Member* | *Brakes Designer* *January 2022 - April 2024*

- Utilized Vertical Mills and Lathes to manufacture common and odd parts from Aluminum and Steel
- Used a Dynamometer and infield tests to tune the CVT and backpack system
- Worked with peers and SolidWorks to develop and integrate a new brake caliper and brake line system

RIT American Welding Society *General Member* | *Chief Engineer* | *Vice-President* *April 2024 - Present*

- Taught lessons on CAD modeling | CAD Drawings | Weldments | Safety | Welding processes and maintenance
- Organized and managed multiple project teams | Created templates for budgeting, scheduling and project documentation