

BEN JACOBSON

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OBJECTIVE

Third-year Mechanical Engineering student seeking a Summer 2026 internship | Available May – August

EDUCATION

Rochester Institute of Technology | GPA: 3.97/4.0

Rochester, NY | September 2023 – May 2028

Bachelor of Science and Master of Engineering in **Mechanical Engineering**, Minor in Communication, expected May 2028

Relevant Courses: Strength of Materials, Materials Science, Engineering Design Tools, Thermodynamics, Fluid Mechanics, Circuits

PROFESSIONAL EXPERIENCE

Mechanical Engineering Co-op, SharkNinja

Needham, MA | July 2025 – December 2025

- Led engineering workstreams to develop haircare accessories to meet temperature, noise, and flow key performance indicators
- Utilized Creo and SolidWorks to design injection-molded components and assemblies for haircare products using DFMA principles
- Designed and executed experiments, performed FEA/CFD simulations, and provided data-driven next steps to executive leadership
- Hosted a learning session presenting a streamlined CAD process for measuring air-duct cross-sectional area for noise optimization
- Reduced accessory noise by 5.5 dBA and increased heat uniformity by 60% through targeted design iterations
- Improved test reliability by 40% by developing automated rigs with embedded sensors and data acquisition systems
- Collaborated with Product Development and Industrial Design teams to ensure products met performance and aesthetic goals

Junior Technician, RIT Tech Crew

Rochester, NY | September 2023 – Present

- Enable successful execution of 50+ campus events by setting up and operating sound, lighting, and power systems
- Demonstrate technical skill and leadership, resulting in early promotion to Trainee and Junior Technician

Lead Instructor, iD Tech Camps

Montclair, NJ | May 2024 – August 2024

- Led day-to-day camp operations, managed paperwork, ensured health and safety of all campers
- Delivered hands-on STEM education to 100+ students by teaching robotics, programming, and AI curricula across 5 weeks
- Appointed as second in command, acting as Substitute Camp Director when necessary

Summer Mechanical Engineering Intern, Crestron Electronics

Rockleigh, NJ | June 2021 – August 2022

- Designed, assembled, and tested prototypes for a potential new product using PTC Creo
- Conducted tests, collected data in Excel, and presented findings to international management team

Software/Electrical Engineering Consultant, Food Novation Design

Danbury, CT | May 2022 – July 2022

- Increased protein bar throughput by 25% by designing and implementing an Arduino-based machine control algorithm with a custom graphical touch user interface and real-time metrics

Owner/Operator, Ben Jacobson Freelance Video Production

Oradell, NJ | July 2017 – October 2020

- Delivered 100% client satisfaction by independently managing all filming, editing, and graphic design projects

PERSONAL PROJECTS | Visit www.benjacobson.me to learn more

Beyond ME Podcast | www.benjacobson.me/podcast

April 2024 – Present (17 episodes)

- Co-host and produce *Beyond ME*, a podcast on tech, philosophy, and the future with 1400+ plays across 10+ platforms

Tennis Ball Machine (to practice tennis strokes) | www.benjacobson.me/tbm

August 2022 – June 2025

- Leveraged Onshape to design and assemble an aluminum frame with a detachable ball hopper, internal leadscrew-based tilting mechanism, double herringbone gear pan mechanism, and servo-actuated ball indexer for precise timing control
- Developed modular control software using state machines and object-oriented programming, enabling users to adjust parameters through rotary encoders on the control panel

Ice Cold Beer (replica arcade game) | www.benjacobson.me/icb

June 2020 – January 2023

- Utilized Fusion 360 and Creo to create a fully functioning replica of a 1983 mechanical arcade game from scratch
- Incorporated custom 3D printed mechanics, remastered sounds, lights, score, and custom printed circuit boards
- Produced an overview video for YouTube and received multiple requests to purchase build plans, CAD files, and wiring diagrams

LEADERSHIP EXPERIENCE

Vice President (formerly Treasurer)

May 2024 – Present

RIT Men's Ultimate Frisbee Executive Board

Drum Major, Stage Manager, Field Captain, Head of Lighting, Tech Coordinator

September 2020 – June 2023

River Dell High School Marching Band and Drama Club

SKILLS

Software: PTC Creo, Onshape, SolidWorks, Fusion 360 (CAM), Ansys, MS Excel, MATLAB, LabVIEW, Python, C++, Java, LaTeX

Other: 3D printing, CNC milling, PCB design, Arduino/embedded programming, soldering, shop tools, DFMA, FEA, CFD, GD&T

SCHOLARSHIPS/AWARDS

RIT Presidential Scholarship, RIT Performing Arts Scholarship, RIT Dick and St. Jane Reeve Fund, The Fleishman Prize, Semifinalist in the Melinda S. Beyerlein Memorial RIT 36th Annual Public Speaking Contest, Apple Next-Gen Innovators Program participant