

# BEN JACOBSON

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## OBJECTIVE

Mechanical engineering student seeking a full-time role to contribute to cross-functional engineering teams | Available May 2028

## EDUCATION

**Rochester Institute of Technology** | GPA: 3.98/4.0

**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, Heat Transfer, Circuits, Numerical Methods

## PROFESSIONAL EXPERIENCE

**Incoming Mechanical Engineering Intern, Formlabs**

**Somerville, MA** | May 2027 – August 2027

**Mechanical Engineering Intern, T-Motion, EVS Broadcast Equipment**

**Allendale, NJ** | May 2026 – August 2026

- Developed a prototype for an upcoming robotic camera system, designing laser-cut and CNC-machined parts in SolidWorks and integrating Arduino Portenta firmware, PID control, and existing control panels
- Designed and built a fixture to securely hold 150-lb test loads on existing robots, mitigating drop risk during testing

**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

**Lead Instructor, iD Tech Camps**

**Montclair, NJ** | May 2024 – August 2024

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

**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 promotions to Trainee and Junior Technician

**Software/Electrical Engineering Consultant, Food Novation Design**

**Danbury, CT** | May 2022 – July 2022

- Increased throughput by 25% by designing and implementing an Arduino-based machine control algorithm with a custom touch screen interface and real-time metrics for a protein bar cutting machine
- Researched, wired, and interfaced with stepper motor drivers, optical rotary encoders, relays, and pneumatics

**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 the international management team

**Owner/Operator, Ben Jacobson Freelance Video Production**

**Oradell, NJ** | July 2017 – October 2020

## PERSONAL PROJECTS | Visit [www.benjacobson.me](http://www.benjacobson.me) to learn more

**Beyond ME Podcast** | [www.benjacobson.me/podcast](http://www.benjacobson.me/podcast)

**April 2024 – Present (18 episodes)**

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

**Tennis Ball Machine** (tennis stroke practice) | [www.benjacobson.me/tbm](http://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](http://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 mechanisms, 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

**President (formerly Vice President and 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, Excel, MATLAB, Simulink, LabVIEW, Python, C++, Java, LaTeX

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

## SCHOLARSHIPS/AWARDS

RIT Presidential and Performing Arts Scholarship, Dick Reeve Fund, Runner-up in 2026 RIT Story Slam, Apple Next-Gen Innovators mentee