

Benjamin Okoronkwo

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OBJECTIVES

I'm an action-oriented mechanical engineering student with experience in CAD, prototyping, and cross-functional design. Currently seeking a Summer 2026 Internship to support the design and development of mechanical systems.

EDUCATION

CORNELL UNIVERSITY, *Ithaca, NY*

Bachelor of Science in Mechanical Engineering

Anticipated Graduation: May 2027

- Notable Coursework: Statics and Mechanics of Solids, Mechanical Design, Thermodynamics, System Dynamics, Fluid Mechanics, Entrepreneurship for Engineers, Intro to Computing: An Engineering and Science Perspective

TECHNICAL SKILLS & INTERESTS

Technical Skills: Fusion 360 (CAD & FEA), Python, MATLAB, Arduino (basic), 3D Printing, Machining Tools

Soft Skills: Creativity, Problem-Solving, Leadership, Communication, Adaptability, Teamwork, Critical Thinking

Interests: Mechanical Design, Product Development, Robotics, Manufacturing, Human-Centered Design, Sustainable Design

PROJECTS

COUNTER CLOCKWORK STUDIOS (SELF-MADE PROJECT), *Euless, TX*

Product Design Intern, [BUDDY: A Personal Camera Person](https://tinyurl.com/buddy-project)

May 2025 – Present

- Designed and developed programmable dual-axis camera rig (BUDDY) for precision cinematography
- Engineered belt driven X and Z-axis motion and tilt mechanism in Fusion 360 and built motion control logic integrating stepper motors, power supply, and TMC2208 drivers with Arduino and Python
- Simulated structural deflection and tolerance analysis of plastics within 0.75 mm and applied DFM/DFA knowledge
- Project Portfolio: <https://tinyurl.com/buddy-project>

CORNELL ENTERTAINMENT ENGINEERING AND DESIGN CLUB, *Ithaca, NY*

Mechanical Lead, [Axolotl Animatronic/Robot](https://tinyurl.com/axolotl-animatronic)

February 2025 – May 2025

- Managed the fabrication of an interactive robot ensuring reliable user interaction while managing a \$950 budget
- Directed an 18-member mechanical team resulting in the design of 7 electromechanical subsystems
- Collaborated with electrical and software teams to integrate motion control, sensors, and actuation
- Project Portfolio: <https://tinyurl.com/axolotl-animatronic>

Team Lead, [Furniture 1: Furniture Racing](https://tinyurl.com/furniture-one)

October 2024 – December 2024

- Designed the chassis and steering mechanism using finite element analysis in Fusion 360 and materials ranging from 2x3 plywood and aluminum bars to custom-made CAD parts
- Oversaw a team of 7 students, delegated tasks accordingly and ensured adherence to the project timeline
- Managed and optimized a project budget of \$200 and organized build sessions with school staff
- Project Portfolio: <https://tinyurl.com/furniture-one>

WORK & LEADERSHIP EXPERIENCE

CORNELL ENTERTAINMENT ENGINEERING AND DESIGN CLUB, *Ithaca, NY*

President and Project Manager

January 2025 – Present

- Defined the scope for our semesterly project working with under the constraints of budget, time, and resources
- Negotiated with external suppliers (Home Depot and RPLCornell) to optimize cost and resource allocation for our builds
- Led a 29-person club and 7-person Executive Board, overseeing meetings and build sessions working toward engineering products that bring joy into people's lives

CORNELL UNIVERSITY DEPARTMENT OF PERFORMING AND MEDIA ARTS, *Ithaca, NY*

Shop Assistant

October 2023 – Present

- Assisted in day-to-day operations of a carpentry shop, translating technical drawings into sets and props
- Collaborated with peers and supervisors on wood and metal projects while performing general shop maintenance
- Operated machining and fabrication tools (bandsaw, table saw, drills) and supported material handling that improved build efficiency

CORNELL UNIVERSITY COLLEGE OF ENGINEERING, *Ithaca, NY*

Peer Advisor

August 2024 – Present

- Teamed up with my co-peer advisors to assist first-year engineering students in their transition to campus life
- Led weekly classes of 22 students and organized presentations that exposed new students to various campus resources that would aid their academic and personal pursuits
- Became a point of support for first years in case they had any struggles and worries