

# Benjamin Okoronkwo

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## OBJECTIVES

I'm an action-oriented mechanical engineering student with experience in CAD, prototyping, and cross-functional collaboration. I'm seeking opportunities where I can support product development through CAD modeling, iterative testing, and collaborative problem-solving in a fast-paced engineering environment.

## EDUCATION

### CORNELL UNIVERSITY, *Ithaca, NY*

#### **Bachelor of Science in Mechanical Engineering**

May 2027

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

## SKILLS & INTERESTS

**Technical Skills:** Fusion 360, Python, Arduino, 3D Printing, Laser Cutting, Microsoft Office Suite, AutoCAD basics

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

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

## WORK EXPERIENCE

### BASOK INTELLIGENT GLOBAL SOLUTIONS, *Lagos, Nigeria*

#### **Engineering Intern**

June 2024 – August 2024

- Prepared detailed Bill of Materials ahead of team meetings with on-site engineers, facilitating effective planning and decision-making processes, which increased planning efficiency by 30% and reduced decision-making time by 20%
- Maintained on-site operating procedures ensuring optimal functioning of mechanical and electrical equipment
- Worked under bi-weekly deadlines that required prioritizing efforts and flexible work hours

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

#### **Scene Shop Assistant**

October 2023 – Present

- Assisted in day-to-day operations 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
- Fabricated sets using power tools and assisted with material handling that led to more efficient builds

## PROJECT & LEADERSHIP EXPERIENCE

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

#### **Mechanical Lead, Axolotl Animatronic/Robot**

February 2025 – Present

- Developed and tested mechanisms including cable-driven motion and fluid-pump systems using Fusion 360
- Managed fabrication and material selection within a \$950 budget while balancing performance, weight, and manufacturability constraints
- Collaborated with electrical and software teams to integrate motion control, sensors, and actuation
- Directed an 18-member mechanical team in the design of 7 electromechanical subsystems

#### **President**

January 2025 – Present

- Progressed from Member to Vice President and now President within 1.5 years
- Led a 34-person club and 7-person Executive Board, overseeing meetings and build sessions working toward a goal of engineering a product that brings entertains and by larger extension, brings joy into people's lives
- Coordinated 5 workshops and 3 fundraisers, collaborating with professors and other clubs for "mini lessons" that provide greater context to our projects

#### **Team Lead, Furniture 1: Furniture Racing**

October 2024 – December 2024

- Designed the chassis and steering mechanism using finite element analysis in Fusion 360 and materials ranging from 2x3 plywood, aluminum bars, a 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

### 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