

# Aisha Nwosu

## CONTACT

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Boston, MA

## SKILL

- Python (NumPy, SciPy, Matplotlib)
- MATLAB & Simulink
- C / Arduino
- SolidWorks (CAD)
- Circuit Design & PCB Layout
- Statistical Analysis & Data Visualization
- Technical Writing & Research Communication

## LANGUAGE

- English — Native
- Igbo — Native
- French — Intermediate (B1)

## CERTIFICATE

- Dean's List — Fall 2022, Spring 2023, Fall 2023, Spring 2024
- IEEE EMBC 2024 — Accepted Conference Abstract Co-Author
- Coursera: Machine Learning Specialization (Andrew Ng) — 2023
- NSF Research Experience for Undergraduates (REU) Participant — Summer 2024

## PROJECT

- Low-Cost ECG Monitor — Senior Design Project (Arduino + BLE, ongoing)

## OBJECTIVE

Highly motivated third-year Biomedical Engineering student with a 3.92 GPA, seeking the National Merit STEM Scholarship to fund research in neural prosthetics. Proven track record in laboratory research, academic excellence, and science outreach. Committed to advancing healthcare technology through interdisciplinary engineering.

## EDUCATION

### **B.S. Biomedical Engineering — GPA: 3.92 / 4.00**

**Boston University** | Sep 2022 - May 2026 (Expected)

### **High School Diploma — Valedictorian, 4.0 GPA**

**Brookline High School** | Sep 2018 - Jun 2022

## EXPERIENCE

### **Undergraduate Research Assistant**

**BU Neural Engineering Lab**, Boston, MA | Jan 2023 - Present

- Assist in developing soft bioelectronic interfaces for cortical stimulation studies
- Analyze EEG signal data using MATLAB and Python (NumPy, SciPy)
- Co-authored a conference abstract accepted to IEEE EMBC 2024

### **STEM Tutor & Mentor**

**BU Academic Resource Center**, Boston, MA | Sep 2022 - Present

- Tutor 10+ undergraduates weekly in Calculus II, Physics, and Circuit Analysis
- Developed supplemental problem sets adopted by two course instructors
- Awarded 'Outstanding Tutor' recognition, Spring 2023

### **Science Outreach Volunteer**

**Girls Who Code — Boston Chapter**, Boston, MA | Jun 2021 - Aug 2023

- Facilitated hands-on engineering workshops for 60+ middle-school girls annually
- Designed a microcontroller-based health monitor project used in 3 summer camps

- Neural Signal Classifier — ML model (SVM) achieving 94% accuracy on EEG datasets
- 3D-Printed Prosthetic Finger — Featured at BU Innovation Showcase 2023

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