

Nnenna Nsobundu

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EDUCATION

Texas A&M University, College of Engineering

Bachelor of Science in Computer Engineering

Relevant Coursework: C++, Python, Digital Design, Essentials of A.I., Differential Equations

College Station, TX

Expected May 2027

Houston Community College

Associates of Science

Relevant Coursework: Calculus I-III, Physics 1& II, Statistics

Houston, TX

August 2024

EXPERIENCE

University of Houston- Downtown

Undergraduate Research Assistant

Houston, Texas

July 2025 – Current

Research focused on hazardous chemical safety through advanced modeling and AI-driven detection systems.

- Synthesized critical findings from 40+ peer-reviewed articles into comprehensive technical summaries, reducing literature review time for future research by establishing comprehensive knowledge base.
- Modeled chemical dispersion zones up to 6 mixes using ALOHA and MARPLOT software, enabling accurate hazard prediction for emergency response planning.
- Evaluated 10+ AI/ML detection systems and condensed materials for future literature into 3 presentations covering: monitoring accuracy, operational costs, and proactive hazard response.

AI4ALL

Changemaker Participant

San Francisco, CA

August 2025 – Current

- Constructing comprehensive portfolio project over 13 weeks with a team of 4 to design, create, and present responsible AI implementation using Python through 85+ hours of synchronous instruction and mentor meetings.
- Integrating deep learning models and ethical AI principles to address societal issues across 20-week program.

Texas A&M University

Undergraduate Research Assistant, Tactile VR Lab

College Station, TX

August 2025 – Current

- Identified critical power management flaw preventing simultaneous battery charging and Raspberry Pi operation, preventing potential hardware damage.
- Collaborated with engineering team of 6 to research different direct power connects solutions to ensure system stability and longevity.

LEADERSHIP

Aggies Invent

Team Lead & Presenter

College Station, TX

October 2024 – October 2024

- Conceptualized, 360Axes, automated waste disposal system using shape-memory polymers, capturing “Best Presentation” award and \$100 prize among 8+ teams through persuasive stakeholder communication.
- Mentored with Los Alamos Nation Laboratory experts to refine hazardous materials solution under 48-hour time constraints, demonstrating rapid prototyping capabilities.

SEC IGNITE Design Challenge

Circuit Design Team Member

College Station, TX

November 2024 – November 2024

- Assembles functional alarm system circuit achieving 100% trigger accuracy, applying Boolean algebra optimization and delivering fully operation prototype within one-week timeline.
- Orchestrated with 3-member team to design and simulate circuit using Multisim, meeting all technical specifications through collaborative problem solving.

ADDITIONALS

Languages: Fluent in English, Fluent in Igbo, Conversational Proficiency in Spanish

Technical Skills: Python, C++, Verilog, JavaScript, P5.js, Circuits, FPGA, Debugging