

# TOBENNA W. UZUEGBUNAM

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## EDUCATION

**Texas A and M University** College station

**December 2020**

**Undergraduate degree:** Bachelor of Science in Electrical Engineering

**[GPA: 3.63]**

**Minor:** Computer Science

**Seeking Spring Co-op Summer internship**

**Honors:** Electrical Engineering Honors Student

**SKILLS:** C++, Energia, Python, Verilog, Data Analysis, Solidworks, Prototyping, Matlab, Linux OS, Windows OS, MacOS, Web Design, Adobe Photoshop, Adobe illustrator, Unreal, Microsoft Office, French

**COURSEWORK:** Computer Architecture and Design, Electric Circuit Theory, Discrete Structure Computing, Electricity and Optics, Intro to Programming Design Concept, Intro to Digital System design, Signals and Systems, Differential Equation, Linear Algebra

## WORK EXPERIENCE & PROJECTS

### AERIAL SUPERVISION DRONE

February 2018 - July 2018

*Personal Project, Houston, Texas.*

- Designed and created cost-effective auto-leveling quadcopter from scratch with an Arduino launchpad
- Programmed and debugged quadcopter to ensure functional flight system
- Used quadcopter to collect data for analysis and video for surveillance testing

### UNDERGRADUATE RESEARCH FACILITATED BY NASA ENGINEER

August 2017 - June 2018

*Texas A & M College of Engineering, College Station, Texas.*

- Enhanced virtual reality "sandbox" of Mars and the Moon to create a realistic simulation
- Performed quality checks on static meshes to ensure it met NASA's specification and design
- Tested and modified Virtual reality "sandbox" to enhance the conceptualized game environment

### VEHICLE CRISIS RESPONSE PROJECT

January 2017 - May 2017

*Texas A & M College of Engineering, College Station, Texas.*

- Created a wirelessly controlled four-wheeled robot which was sponsored by Texas Instruments
- Led the execution of effective electricity transfer between systems and used innovative techniques to resolve miscalculations during construction and assembly
- Analyzed environmental data collected with robot's sensors

### ENVIRONMENTAL FACILITY ESTABLISHMENT

June 2015 - July 2015

*African Leadership Academy, Johannesburg, South Africa.*

- Implemented conceptual design of sack farms to provide food for a shelter home
- Educated officials on how to recreate, maintain and generate funds from sack farms

### APPLE WATCH WIRELESS CHARGING DOCK

*Personal Project, Houston, Texas*

- Used Solidworks to design apple watch wireless charging dock stand
- 3D printed made modifications to the prototype to make it material effective and more durable



### RESIDENT ADVISOR

January 2017– Present

*Texas A & M University, College Station, Texas*

- Serve as a mentor to 203 undergraduate students
- Facilitates hall programs and activities in residential areas to encourage diversity and awareness

## INVOLVEMENT

**National Society of Black Engineers (NSBE) - Telecommunications Chair**

August 2018 - Present

- Used knowledge of CSS and Website design to create new NSBE website
- Created a platform for effective communication and stimulated involvement

**Institute of Electrical and Electronics Engineers (IEEE) - Member**

August 2017 – Present

**Discover Explore and Enjoy Physics (DEEP) – Research Assistant**

September 2016 - May 2017

- Worked with peers and professors to research on physics concepts to design experiments
- Created and displayed an animation with the use of a motor and a probe light to 100+ high school students

**Engineering Mentorship Council (EMC) - Recruitment**

October 2017 – June 2018

**African Student Association(ASA)**

August 2016 - Present

**Annual Big Event**

March 2016 - Present