

Mercy Sammy

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CURRENT ADDRESS/ PERMANENT ADDRESS

Nashville, Tennessee, 37201

OBJECTIVE: Secure a graduate-level internship or research that will allow me to utilize the ability to work well within a team and independently. Highly dedicated engineering student with excellent communication, intrapersonal skills, and technical skills.

EDUCATION:

Tennessee State University - Nashville, TN

Ph.D. in Engineering/ Comp. Science

Expected Graduation: May 2025

Tennessee State University - Nashville, TN

Master of Engineering/ Civil Engineering

Graduated: May 2023

Tennessee State University - Nashville, TN

Bachelor of Science / Mechanical Engineering

Graduated: Dec. 2021

Nashville State Community College - Nashville, TN

Associate of Science Transfer / Electrical Engineering

Graduated: Dec. 2019

RELEVANT COURSES:

- Environmental lab
- Advanced Reinforced Concrete
- HVAC Course
- Advanced Thermodynamics
- Machine Design/Mechanism Design
- Design of Machine Element
- Advanced Foundation
- Ground Water Seepage
- Finite Element

TECHNICAL SKILLS:

- SolidWorks
- MATLAB
- SpBeam
- AutoCAD
- Labview

PROJECTS/RESEARCH:

Cement Based Rechargeable Battery

- Analyzing previous research to come up with new findings on how we can make a better rechargeable cement-based battery

November 2021-Current

Augmented Reality Collaboration

- Analyzed 3D vision of Air Handling Unit using AR smart glasses.

November 2020-November 2021

Hybrid Car Battery Thermal Management

- Complex calculation and in-depth data analysis on Excel file about Phase Changing Materials

May 2020-October 2020

Geothermal Heat Pump Project

- Project on a geothermal heat pump for a residential house using soil temperature and underground temperature.
- Integrated advanced Excel calculation and analysis and designed a house that uses wasted heat efficiently.

February 2020-August 2020

WORK EXPERIENCE:

Hayward Pool Product-Heating Engineering Internship – Nashville, TN

- Worked on several projects with engineers using SolidWorks and Teamcenter.
- Worked with engineering tech to design and build a trainer box using a wiring diagram.

May 2022- August 2022

DTE Energy-Engineering Intern – Detroit, MI

- Worked on two projects with an engineer and completed the project within a short period of time.
- Conducted deep data analysis by using advanced Excel and by using a website that is used by the company.

May 2021- August 2021

ACTIVITIES:

- ASHRAE
- Deloitte Mentorship Program
- National Society of Leadership and Success
- American Society of Mechanical Engineers
- Society of Women Engineers

June 2016 - Current