

# Siddhartha 'Sidd' Malik

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## EDUCATION

### University of South Carolina (USC)

*Bachelor of Engineering in Mechanical Engineering, Minor in Computer Science*

GPA: 3.79, Dean's List: 2 Semesters

**May 2025**

Columbia, SC

## RELEVANT COURSEWORK

Heat Transfer  
Data Structures & Algorithms

Dynamics  
Mechatronics

Machine Design  
Project Management

## RELATED EXPERIENCE

### Teacher Assistant for Physics 211, USC

- Assist in helping science and engineering students learn the curriculum for physics.
- Includes classical mechanics and special relativity.

**January 2023 – January 2024**

Columbia, SC

### Teacher Assistant for Computer Science 146, USC

- Assist in creating programs using Java and teach students about data structures.
- Includes arrays, linked lists, heaps, binary trees, and graphs.

**August 2023 – December 2023**

Columbia, SC

## RESEARCH EXPERIENCE

### SC Ridesharing, USC

*Web Developer*

- Program a self-adapting database that students can use to find ridesharing trips.
- Addresses the need for access to more transportations on-campus.
- Involves frontend/backend development, user testing, and marketing.
- Received 4000 dollars' worth of research grants for this project.

**August 2022 – January 2024**

Columbia, SC

### Nuclear Magnetic Resonance System, USC

*ME Researcher*

- Creating a NMR system to measure the magnetic particle concentrations of water samples.
- Involves creating an electromagnet to hold back particles and conducting signal conditioning.

**March 2024 – Present**

Columbia, SC

## ADDITIONAL EXPERIENCE

### Department of Housing, USC

*Resident and Conference Assistant*

- Provide housing and meeting services to university departments and guests.
- Served more than a 100 housing groups and individuals in this role.
- Builds understanding of working in a full-fledged industry and interacting with stakeholders.

**August 2023 – Present**

Columbia, SC

## ACTIVITIES

### American Society of Mechanical Engineers, USC

*Member*

- Working on engineering projects in relation to Tiger Burn and attending professional seminars.

**August 2022 – Present**

Columbia, SC

### Deputy Secretary of Safety and Transportation, USC

*Cabinet Position in Student Government*

- Find innovative solutions to upgrading transportation on-campus and assist with policies regarding student safety.

**March 2024 – Present**

Columbia, SC

## SKILLS

Proficient in CAD, Creo, MATLAB, LabView, and FEMM

Experienced Programmer in Python, C++, Java; Backend and Frontend Scripting (JS, CSS, HTML, Bootstrap, PHP, jQuery, APIs, MySQL).