

# SANABHI GAURAW

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## ASPIRING ELECTRICAL ENGINEER

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### CONTACT

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www.example.com

### EDUCATION

#### Plano East Senior High School

2022-2026  
Cumulative GPA: **4.554**  
Weighted GPA: **4.772**  
Class Rank: **3/1300**

#### Relevant Coursework:

AP Physics ½  
AP Calculus BC  
AP Chemistry  
AP Computer Science A  
PLTW Principles of Engineering

### SKILLS

Machine Learning  
Robotics (Inverse Kinematics, FRC)  
Computational Physics &  
Engineering  
Digital Signal Processing  
Programming (Python, Arduino,  
MATLAB)  
Experimental Design & Laboratory  
Research  
Public Speaking & Technical  
Presentations

### PROFILE

I am an innovative and detail-oriented STEM researcher, robotics engineer, and machine learning enthusiast with a strong background in physics, electrical engineering, and computer science. Proven ability to develop and implement cutting-edge projects in areas such as acoustic wave propagation, biomedical imaging, renewable energy, and robotics. Passionate about leveraging technology to address societal challenges and improve accessibility.

### WORK EXPERIENCE

#### Student Researcher – University of North Texas

2024

- Developed a novel model for acoustic pulse propagation, focusing on time-delay effects and impedance shifts.
- Designed a fluid-embedded test system for ultrasonic applications in non-destructive imaging.
- Presented findings to physics professors and in competitive science forums.

#### Electrical Engineering Mentee - REV

2024-

- Worked with an FRC team in a role similar to an internship, focusing on programming and electrical systems.
- Developed and implemented efficient control algorithms to optimize robot performance.
- Assisted in the design and wiring of electrical components for competitive robotics.
- Gained hands-on experience with cutting-edge robotics hardware and software used in high-level competitions.