

# Tauseef Afraz

Plano, Texas | [tauseef.afraz.1@gmail.com](mailto:tauseef.afraz.1@gmail.com) | (240) 708-2989 | [tauseefafraz.com](http://tauseefafraz.com)

## Education

### Collin College, Collin County, TX

May 16, 2022-Present

- Dual Associates
  - Associate of Applied Science in Electronic Engineering Technology August 21, 2023-May 16, 2025
  - Associate of Applied Science in Robotics and Automation Technology Expected in May 2026

## Work Experience

### Texas Instruments, AMHS Technician, Richardson, TX

June 9, 2025-Present

- Maintained automation hardware at Richardson Fabrication (RFAB) for a world-class semiconductor fabrication facility
- Supported production teams by troubleshooting, servicing, and maintaining automated material handling systems (AMHS)
- Gained experience in high-volume semiconductor environments, ensuring system uptime and operational efficiency
- Returned for a full-time role following a successful internship (May 24-August 24, 2024), demonstrating strong performance and reliability

### Swyft Robotics, Electronic Engineering Technician, Hybrid

April 15, 2024-Present

- Focused on hardware solutions for FIRST Tech Challenge (FTC) and FIRST Robotics Competition (FRC) programs
- Ranger: Developed and supported a precision distance sensing system for competition robots using analog connections, offering a reliable alternative to I2C and CAN interfaces
- CANnect: Contributed to the design of an innovative module enabling CAN bus and 12V power transmission over standard Ethernet cables, simplifying robot wiring and integration
- CANender: Helped implement a dependable CAN bus termination solution using WAGO or Molex SL connectors, improving network reliability for student-built robotics systems

### FUN Robotics Network, FRC Correspondent, Hybrid

January 3, 2022-Present

- Write scripts to report events around the globe on multiple live shows
- Conduct live interviews with FRC teams that showcased their robots' mechanical and software abilities

## Extracurricular Experience

### First Robotics Competition (FRC) 5431; Titan Robotics

August 21, 2017-Present

- Mentor - Supervise and work with the Electronics Lead of the electronics division of Titan Robotics
- Programming Co-Lead - Taught, maintained, and supervised the programming and electronics division of Titan Robotics
- Electronic Sub-Team Lead - Taught, maintained, and supervised the electronics division of Titan Robotics
- OSHA 10-hour Construction Industry
- Taking initiative and having problem-solving abilities
- Working collaboratively with team members on assigned projects

### NASA Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE)

- NASA Proposal Writing & Evaluation Experience Academy (NPWEE) September 12-December 16, 2024
  - Learned to effectively write a concept proposal that turns innovative ideas into reality. Gain experience in the process of writing, reviewing, and scoring proposals through the lens of a NASA reviewer
- Mission Concept Academy (MCA) May 14-August 27, 2024
  - Received mission development skills training each week from NASA scientists and engineers, and collaborated with other students to design a mission-related team project

### NASA Community Aerospace Scholars (NCAS)

- Mission 3: Innovate January 29-February 2, 2024
  - Contributed to a Capstone Project addressing NASA's current challenges, developed innovative solutions, and presented findings to NASA professionals. Included two weeks of virtual collaboration and a week on-site at NASA Langley Research Center
- Mission 2: Explore October 30-November 3, 2023
  - Participated in a week-long career simulation, adopting roles as NASA employees to understand workplace dynamics and the importance of teamwork in achieving mission goals, focusing on lunar surface exploration
- Mission 1: Discover July 26-August 30, 2023
  - Completed online modules including readings, videos, and assignments. Engaged with NASA experts through a speaker series. Culminated in a Final Infographic Assignment

## Skills

### Software

- Microsoft Office Suite, Google Workspace, KiCad, Multisim, MATLAB

### Languages

- HTML, Java