

# Tauseef Afraz

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## Education

### Collin College, Collin County, TX

May 16, 2022-Present

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

### Embry-Riddle Aeronautical University (ERAU), Daytona Beach, FL

August 30, 2021-May 4, 2022

- Bachelor of Science in Aerospace Engineering Expected
  - Area of Concentration: Astronautics

## Work Experience

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

June 9, 2025-Present

- Maintained automation hardware at RFAB (Richardson Fab) 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

### Collin College, Work Study, McKinney, TX

September 9, 2024-March 7, 2025

- Supported PMO operations by capturing high-level meeting minutes, preparing documentation, and coordinating meeting logistics
- Managed administrative tasks including filing, copying, running errands, and organizing project documentation
- Conducted online research and maintained internal documentation repositories
- Assisted with team-building events and provided flexible support for lower-level PMO activities
- Ensured compliance with college policies, maintained confidentiality, and upheld institutional Core Values

### Jimmy Burger, Assistant Manager, Plano, TX

June 3, 2017-May 23, 2024

- Grill different types of meats and veggies in many different ways for customers' enjoyment
- Deliver exceptional, friendly, and fast service
- Take care of customer complaints
- Maintain and update the computers, Point of Sale systems, and tablets at the restaurant
- Accurately record orders and partner with team members to serve food and beverages that exceed guests' expectations

## 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
  - Learn 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
  - Receive mission development skills training each week from NASA scientists and engineers, and collaborate 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

#### **Embry-Riddle Future Space Explorers and Developers Society (ERFSEDS)**

September 2021-May 2022

- Team Member; Project Cerberus and Project Kleos
- Planned and designed an avionic bay for a model rocket
- Planned and created a 5-pound ballast for a nose cone for a model rocket to stabilize the rocket during lift-off

#### **NASA High School Aerospace Scholars (HAS)**

October 2019-July 2020

- Took a 2-part program about Aerospace
  - Learned about Aerospace and NASA technologies
  - Worked on Developing a Rover

### **Skills**

#### **Software**

- Microsoft Word, PowerPoint, Excel, Outlook
- Google Docs, Slides, Sheets, Gmail
- KiCad, Multisim, MATLAB
- Adobe Photoshop, Premiere

#### **Coding Languages**

- HTML, CSS, JavaScript, Java