

SHOURV TARAFDER

[Website](#) [Research Gate](#) [LinkedIn](#) [Google Scholar](#) [GitHub](#)

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OBJECTIVE: Enthusiastic about Industrial Control Systems, Autonomous Navigation, Robotics and IoT Systems, Drone Technologies, Human-Robot Collaboration, Machine Learning, Computer Vision, and Robotic Simulation. Experienced in ROS 2 development, Gazebo simulation, 3D mechanical design, YOLO object detection, and OpenCV applications. Seeking opportunities to apply my skills in robotics, automation, and AI-driven systems to develop

SCHOLASTIC INFORMATION:

BSc in Electrical & Electronic Engineering

3rd Year

Chittagong University of Engineering and Technology

UNDERGRADUATE PROJECTS:

- [Low Cost Braille Printer](#)
- [Wall Climbing Crack Detection Robot](#)
- Mars Rover– CUET MONGOLCHARI
- [Robot Simulation Platform - Developed custom robot model in Fusion 360, implemented autonomous navigation using ROS 2 Jazzy in Gazebo simulation environment](#)
- [Bionic Arm Driven by EMG Signal](#)
- Delivery Robot with Co-ordinate
- [Quadcopter Drone](#)
- Smart Voice Assistant & IoT Room Automation System
- Line Following Robot
- IoT-based Home Automation System
- IoT-based Green House Automation System
- Design a 940 kVA, 3 phase, 6.6 KV/415 V, Delta/Star distribution transformer using AutoCAD.

TRAINING & CERTIFICATIONS:

- 1 day-long industrial visit at General Electric Manufa Company Limited
- ROS 2 Development and Gazebo Simulation
- OpenCV Python Course for Computer Vision Applications
- 60 days long training on Robotics by ROBOMENT ROB CAMP
- Advanced Machine Learning and Data Science
- Crash Course on Python

WORKSHOP INSTRUCTION:

- Instructor, Advanced Robotics Course by Sinc Robotics
- Instructor, 2 Days Hands on Drone Workshop by Robo Mechatronics Association
- Instructor, Hands on Arduino by Robo Mechatronics Association
- Physics and Math Instructor, Science Era Coaching Centre

SCHOLARSHIP:

- Received academic scholarship in semester finals.
- Received Scholarship from Bangladesh Ansar VDP
- Received Scholarship from Betaga Union

SKILLS:

- **Programming Languages:** Python, C, MATLAB
- **Machine Learning & AI:** OpenCV, YOLO (v5/v8), TensorFlow, Scikit-learn
- **Computer Vision:** Image Processing, Object Detection, Feature Extraction, Pattern Recognition
- **Microcontrollers:** Arduino, ESP-32, Raspberry Pi, NVIDIA Jetson
- **Robotics Frameworks:** ROS 2 (Jazzy)
- **3D Design:** Fusion 360
- **Simulation & Modeling:** Gazebo
- **Electrical Circuit Simulation:** Proteus, PSpice, Simulink, AutoCAD, microC pro
- **Development Tools:** Git/GitHub, Docker, Jupyter Notebook, Google Colab, VS Code
- **Office Package:** MS Word, Excel, PowerPoint
- **Antenna Design Software:** ADS, AWR
- **Operating Systems:** Windows, Linux (Ubuntu 22.04)
- **Languages:** Bengali, English
- **Design:** Adobe photoshop, Video Editing

ACHIEVEMENTS:

- **Champion**, Industrial Case Competition, Crack the Cage by Robo Mechatronics Association
- **Champion**, TECHDAY 2024 Robo Race by Robo Mechatronics Association
- **Runners Up**, ROBO RACE by TECHNOXIAN

EXTRA CURRICULAR ACTIVITIES:

- **LEADER**, CUET ADVENTURE SOCIETY
- **ELECTRIC TEAM LEAD**, CUET Mongolchari (CUET MARS Rover Team).
- **ELECTRIC TEAM MEMBER**, STARLAP (Rocket Launching program by ASRRO, CUET)
- **Assistant Secretary** of Graphics and Illustration at IEEE Student Branch, CUET
- **Physics and Math Instructor**, Science Era Coaching Centre
- **Campus Ambassador**, BEAR SUMMIT 2025, Bangladesh National Semiconductor Symposium
- **Campus Ambassador** 9th RCF CAREER FAIR
- **CEO and Founder**: Sinc Robotics
- **Campus Ambassador**, KUET Energy Fest 2.0