

## WORK EXPERIENCE

- Sensor and Circuit Team, BRACU DUBURI
- Ground Station, BRACU DIGANTA
- Rocket Tasting Pad, BRACU DIGANTA
- Executive of Research and Development Department, BRACU EEE Club
- Web Interface, BRACU EEE Club

## TECHNICAL SKILLS

- Programming (C++, Python etc.)
- Robotic Operating System (ROS)
- Deep Learning (TensorFlow, PyTorch)
- Reinforcement Learning
- Circuit and Sensor Integration
- Mechanical Design
- Quantum Computing
- Quantum Information
- Quantum Error Correction
- Quantum Algorithms

## PERSONAL SKILLS

- Having Leadership Qualities.
- Ability to work under pressure.
- Comfortable Working Independently.
- Ability to take new initiative.

## INTERESTED IN

- Cryptography
- Human Computer Interaction
- Computer Architecture

## AWARD

Bronze Medal, Duke of Edinburgh International Award.

## EDUCATION

BSc in Computer Science and Engineering  
BRAC University  
2023 – Present

## PROJECT

Team Leader

Swarm drone system for monitoring Air pollutions (AetherGuard)

- Reinforcement Learning system development for Swarm drone.
- Researching for Robot Path Planning using Swarm Intelligence.
- Developing mechanical design for drone.

Team Leader

Autonomous Multipurpose Agricultural Robot (AGRIBOT)

- Work with ROS using raspberry pi in AGRIBOT.
- Handles sensor and circuit integration for Agricultural Robot.
- Making User Interface for agricultural bot.

Team Leader

Autonomous Drone for SUAS Competition (Halion)

- Handle Automatic flight control system.
- Work on object detection and obstacle avoidance and payload mechanism
- Work on Ground control system

## LANGUAGE

- BANGLA
- ENGLISH