



## Skills

### Hard Skills:

- Web Development
- UI/ UX Design
- Robotics & IoT
- Graphics Design
- Video Editing

### Programming Languages:

- C, C++
- Python (Flask)
- JavaScript (Next.js, Nest.js)
- PHP
- SQL (MySQL, PostgreSQL, SQLite)

### Soft Skills:

- Leadership• Creativity
- Problem Solving
- Teamwork
- Willingness to learn

## Education

### B.Sc. in Computer Science and Engineering (CSE)

American International University-  
Bangladesh (AIUB)

Graduation Year: 2025

CGPA: 3.84

## Hobbies

- Photography
- Tinkering
- Film Making

## Award

- **Leadership Award** from English Olympiad (2019)
- **1st Runner-Up** in Logo Design at AIUB CS Fest 2024

# TANZIM IKRAM SHEIKH

Passionate computer science student skilled in software engineering, UI/UX design, robotics, and IoT. Seeking opportunities to apply my skills and drive continuous improvement.

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## Experience

### GUI Coordinator | Amateur Experimental Rocketry Dhaka (AERD)

Mar 2024 - Sep 2024

- Played a key role in designing user-friendly interfaces, enabling real-time monitoring and control of experimental payloads during missions.
- Led the development of an intuitive graphical user interface (GUI) for CanSat and flight computer systems, enhancing user interaction and operational efficiency.

### A & GNC Sub-Team Member | Amateur Experimental Rocketry Dhaka (AERD)

Feb 2024 - Sep 2024

- Designed and implemented a web server for the AERD Launch Box using the ESP8266 microcontroller, enabling remote control and monitoring of the hybrid rocket's ignition, flow levels, and cooling time.
- Integrated hardware interruption support for workflow management, ensuring real-time response to critical changes during the rocket's launch process.

### Tech Envoy | Tech Topia

Nov 2023 - Mar 2024

- Spearheaded the promotion of Projukti Bijoy, the organization's inaugural online event
- Designed and produced a comprehensive year-in-review video for Tech Topia, highlighting key achievements and milestones, which was shared across various platforms to celebrate the organization's growth.

## Projects

### Electronics, Robotics and IoT Projects

- **Hybrid Rocket Engine Control Box Webserver (ESP8266):** ESP8266-based webserver to control ignition, flow levels, and cooling time of a hybrid rocket; supports workflow interruption via hardware interruption.
- **Line Following Robot:** Arduino Nano-powered robot with a 6-sensor array capable of basic line following and maze solving.
- **ShooterX:** ESP32-based customizable FPS game controller with motion control (MPU6050), rotary encoders, buttons, and touch sensors; supports Bluetooth HID.
- **FigmaPad:** ESP32 BLE device that sends Figma keyboard shortcuts for improved design workflow efficiency.
- **GlobeStick:** ESP32-based BLE navigation device for Google Earth, featuring joysticks and rotary input for smooth map exploration.

### Web Projects

- **Culinary Odyssey (TypeScript, Next.js, Nest.js, Node.js, PostgreSQL):** A catering management web app with 4 user roles - Admin, Chef, Deliveryman, and Customer; supports meal subscriptions, grocery tracking, and daily delivery.
- **Virtual Bookshelf (HTML, CSS, Bootstrap, JS, Flask, SQLite):** A personal library manager allows users to browse and search books; an admin can add, edit, delete, and review books
- **FundMe (HTML, CSS, JS, PHP, MySQL):** A crowdfunding platform with roles for Admin, Donor, and Fundraiser to post, collect, and contribute funds
- **Blog Site (HTML, CSS, Bootstrap, Flask, SQLite):** A basic blog platform for posting and displaying articles.
- **Casa di Pasta (HTML, CSS, JS, Webpack):** A modern restaurant website built with Webpack and JavaScript modules, featuring a sleek UI and responsive design