

# MD. ADIB HASAN

Electrical & Computer Engineering Student,  
Rajshahi University of Engineering & Technology



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## PROFESSIONAL SUMMARY

Software, Web, and Embedded Systems Engineering student with hands-on experience in iOS development, web development, PCB design, IoT, and microcontroller projects. Strong innovation & entrepreneurship background through a 3-month university incubation program, securing 40,000 BDT pre-seed funding, and developing early-stage SaaS solutions. Demonstrated impact through multiple national hackathons and prototype development with measurable technical improvements. Seeking Software, Web, Mobile App, Embedded Systems, or Startup/Innovation Internship roles.

## SKILLS

- Programming:** C, C++, Java, Swift, JavaScript
- Mobile Development:** Swift, SwiftUI, iOS SDK
- Web Development:** HTML, CSS, JavaScript, Firebase, Superbase, REST APIs
- Embedded & IoT:** ESP32, Arduino, PID Control, Sensor Fusion, Wireless Communication
- Hardware:** PCB Design (KiCad, EasyEDA)
- Startup & Innovation:** Pitching, Business Model Design, MVP Development, Customer Validation
- Tools:** Git, GitHub, VS Code, Xcode, SQL, Firebase, Superbase, LLMs
- Project Management:** Team Leadership, Agile Development
- Soft Skills:** Leadership, Innovation, Problem-Solving, Team Management

## EDUCATION

### Bachelor of Science in Electrical & Computer Engineering

2023-Present

Rajshahi University of Engineering & Technology (RUET)

- Current CGPA: 3.70/4.00
- Relevant Coursework: C Programming, OOP (C++, Java), DSA, Database Management, Analog Electronics, Digital Techniques, Circuit & Systems, Electrical Machines, Numerical Methods, Discrete Mathematics

### HIGHER SECONDARY CERTIFICATE (HSC)

2022

Abdul Kadir Mollah City College, Narsingdi

- GPA: 5.00/5.00 | Group: Science

### SECONDARY SCHOOL CERTIFICATE (SSC)

2020

Abdul Kadir Mollah City College, Narsingdi

- GPA: 5.00/5.00 | Group: Science

## PROJECTS

### NutriMind (Early-Stage Development)

2025-PRESENT

- Developing a SaaS-based solution targeting health and fitness of Bangladeshi people.
- Building MVP architecture using React, NextJS, Superbase, APIs.

### 16-Sensor Line-Following Robot

2025

- Designed custom PCB with 16-sensor array, improving line detection resolution 4x.
- Optimized PID tuning resulting in ~35% more stability and 20% faster tracking.

### Full-Stack Hackathon Web Platforms

2025-PRESENT

- Built deployment-ready web apps (HTML, CSS, JS, Superbase) for hackathons.
- Reduced prototype build time by 30–40% using modular components.

### ESP32 Programmable Micro Drone

2025

- Built sensor fusion flight controller achieving hover stabilization for X seconds.
- Improved command latency by ~18% via ESP32 optimization.

### UniVerse – iOS Student Life Management App

2025

- Improved data fetch performance by 25% through Firebase optimization.
- Implemented academic & productivity features with SwiftUI.

## EXPERIENCE

### Team Leader | UIHP Innovation Cohort 5

2024

- Led a 4-member team, winning 40,000 BDT pre-seed funding.
- Delivered a functional prototype 2 weeks ahead of schedule, improving planning efficiency 20%.

### Full Stack Web Developer – National Hackathons

2024-2025

- Developed fast-turnaround web prototypes used for competition demos.
- Increased team prototyping speed by 40%.

### Academic Tutor | Freelance

2023-Present

- Taught several students, improving average exam performance by 15–20%

## KEY ACHIEVEMENTS

- **Pre-Seed Grant Winner (40,000 BDT):** UIHP Innovation Cohort (Incubation Program)
- **Top 50:** InnovateX Hackathon, BUBT x Programming Hero
- **Top 50:** SOLVIO AI Hackathon, Sheba Platform
- **7th Place:** Research Poster Presentation, RUET
- **Winner:** Logo Design Competition, RUET ECE Club

## ACTIVITIES

- **Campus Ambassador:** Televerse 1.0 (CUET)
- **Attendee:** Multiple entrepreneurship seminars, startup bootcamps & idea competitions
- **Organizer:** RUET ECE Dept Events

2025

2023-2025

2025

## CERTIFICATIONS

- Agentic AI (DeepLearning.AI), PCB Design (EasyEDA), Intro to Frontend Dev (SimpliLearn),
- Ongoing: iOS Dev Bootcamp

## LANGUAGE

- **Bangla:** Native
- **English:** Intermediate
- **Hindi:** Intermediate
- **German:** Beginner