

Mahir Daiyan Safwaan

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PROFESSIONAL SUMMARY

- **World Champion** (12th e-ICON, 40+ nations) and **award-winning Founder** with hands-on experience in **Full-Stack Engineering** across both **early-stage ventures** and **competitive global programmes**.
- Led **end-to-end product development** and launched multiple **React Native, LLM-powered** products from the ground up, including a **pre-seed funded startup**.
- As a **technical leader and community builder**, drove impact for **1,000+** individuals by delivering essential **accessible technology** and **inclusive civic-tech solutions**.

TECHNICAL SKILLS

Full-Stack Dev: React Native, React.js, Node.js, Express, Firebase, Python (NumPy, SciPy, Matplotlib)

Avionics & GNC: PID Control, Kalman Filters, STM32 Microcontrollers, Altium Designer, KiCad

Tools & Infrastructure: NASA's OPEN MCT, MQTT Protocols, Selenium Automation, BeautifulSoup, Git

Languages: JavaScript (Expert), TypeScript, C/C++ , Python

LEADERSHIP & PROFESSIONAL EXPERIENCE

Gigalogy Technopreneurship Program

Dhaka, Bangladesh

Program Finalist

Dec 2025 - Apr 2026

- **Full-Stack Technical Track:** Completed a rigorous **6-week** technical development phase, executing high-fidelity UI/UX design, robust API architecture, and custom AI implementation for a functional product prototype.
- **Venture Development:** Formulated a comprehensive business model and performed deep-dive market fit analysis over **4 weeks** to bridge the gap between technical execution and business success.
- **Competitive Selection:** Successfully navigated **5** intensive in-house elimination rounds and **7** weekend workshops, culminating in selection as a Grand Finale Finalist for the **15-week** journey.

ShadhinAI

Dhaka, Bangladesh

Founder & CEO

Nov 2025 - Present

- **Visionary Leadership:** Conceptualized and launched an AI-driven platform focused on inclusive mechanisms for senior citizens and persons with disabilities.
- **Full-Stack Engineering:** Architected a robust mobile ecosystem from the ground up using React Native and Firebase, implementing complex WCAG 2.1 accessibility standards for screen-reader compatibility.
- **Growth Factor:** Champion of Build4Democracy Hackathon. Secured **2.5 lakhs Seed Funding** from SecDev and High Commission of Canada to Bangladesh
- **Institutional Engagement:** Collaborated with **5+ NGOs** to pilot digital inclusion tools for national-level application.

Amateur Experimental Rocketry BD (AERD)

Dhaka, Bangladesh

Avionics, GNC & Propulsion Specialist

Aug 2024 - Dec 2025

- **Ground Control Systems:** Designed and deployed a proprietary GCS for real-time telemetry monitoring and precision Cartesian-based servo control for engine gimbaling.
- **Data Visualization:** Integrated NASA's OPEN MCT framework to provide mission control with high-fidelity, real-time visualization of high-frequency flight telemetry data.
- **Communication Protocols:** Engineered low-latency flight control software using Arduino/C++ and MQTT, ensuring reliable data transmission under high-vibration flight conditions.

Dhumketu Exploration Co. Ltd.

Dhaka, Bangladesh

Embedded Systems & Avionics Intern

Apr 2024 - Oct 2024

- **Hardware Design:** Engineered a custom 2-layer STM32 PCB using Altium Designer, specifically optimized for high-density signal routing and power efficiency.
- **Algorithm Implementation:** Developed and tuned PID control loops and Particle Filters to significantly reduce sensor noise and improve attitude estimation for flight vehicles.

DRMC IT Club

Vice-President

Dhaka, Bangladesh

Jan 2023 – Dec 2023

- **Large-Scale Event Management:** Orchestrated the 5th DRMC International Tech Carnival, the largest tech summit in the country, managing logistics for 1,000+ participants and a team of 100+ volunteers.
- **Programming Initiatives:** Spearheaded the inauguration of the inter-college/university programming contest at the Sheikh Rasel Digital Lab, fostering a competitive coding culture.

EDUCATION

Rajshahi University of Engineering and Technology (RUET)

B.Sc. in Electrical and Electronic Engineering (EEE) - Sophomore

Rajshahi, BD

Sep 2024 – Present

HONORS & AWARDS

- **World Champion, 12th e-ICON World Contest:** Awarded 1st Place among 40+ nations for innovative educational technology (Ministry of Education, Republic of Korea).
- **Champion, Build4democracy Hackathon:** Recognized by High Commission of Canada to Bangladesh and SecDev for creating the most accessible voting infrastructure for marginalized communities.
- **National Finalist, NHSPC:** Top 50 ranking in the National High School Programming Contest, representing DRMC.

FEATURED PROJECTS

- **ShadhinAI App:** A React Native mobile platform designed for accessibility-first voting, allowing visually impaired users to cast votes independently through haptic and audio feedback.
- **Until The EU:** A cross-platform application utilizing psychological behavioral tracking to provide early intervention and personalized mental health solutions.
- **bishleshok.ai:** An AI-powered Business Intelligence tool for local SMEs, providing predictive sales analytics and inventory optimization (Solvio Hackathon Top 50).