

Md Hamidur Rahman Khan

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Education

Lappeenranta, Finland

LUT University

Sept 2024 - May 2027

- **Major:** Computational Engineering, B.Sc.
- **Certificate (Minor):** Software Engineering
- **Programming Coursework:** Algorithms & Data Structures, Networks, Web Development, Artificial Intelligence, Machine Learning
- **Computational Coursework:** Linear Algebra, Matrix Decomposition, Multivariate Calculus, Probabilities & Statistics

Work Experience

Web Developer

Give Bangladesh Foundation

Sept 2023 - Present

- Collaborated internationally with Awake Youth Initiative to develop a fundraising website that supports the African underserved slum communities in Nairobi, Kenya. Website link: <https://awakeyi.org/>

Coder and Trainer

Tesla Lab

Sept 2021 - Aug 2023

- Took workshops to train **400+** individuals about **integrated circuits, embedded systems, internet of things, and drones**.
- Built educational **Java** and **Python** games/projects like **spell checkers** and **pong games** to reinforce the interactive programming knowledge of the students.

Personal Projects

Block Meter

Python, C++, Solidity

BLOCKCHAIN-BASED ELECTRICITY BILLING SYSTEM

2022

- **Invented** an electricity billing system that eliminated non-technical losses by **100%** and ensures transparency and immutability.
- Won a **Silver Medal** in SDG 12 national teams from 44 countries at the **International Blockchain Olympiad 2022 (Hong Kong)**.
- Secured **Bronze Medal** as the youngest developer to secure top national position in the **Bangladesh Blockchain Olympiad 2022**.

Tinker

C++

SEMI-AUTOMATIC HUMANOID ROBOT

2018

- Built a **5-foot-tall** semi-automatic multi-functional humanoid robot, including greeting guests, and carrying loads.

Spectre Bot & Spectre OS

C++

LINE FOLLOWER ROBOT WITH CUSTOM OPERATING SYSTEM

2016-2022

- Spectre bot is a fully custom advanced line follower robot capable of achieving a maximum of **5m/s speed** on track.
- Spectre OS is a custom operating system designed to provide advanced control and debugging capabilities for line follower robots.
- Secured **Champion position** in the **International Tech Carnival-DRMC 2020** with Spectre Bot.

Activities

National Coach

World Robot Olympiad (WRO)

Jan 2023 - Dec 2023

- Successfully led a **team of 3** in the **Future Innovator** segment through the national round, mainly focused on the **robotic system, software design, hardware construction, business analysis, and technical presentation**.
- Guided two national teams' participation in international competition rounds, one team achieved an impressive, first time in the history of Bangladeshi participants, **5th place out of 451 global teams** at WRO '23 Panama.

President, Robotics

Notre Dame Information Technology Club

Aug 2019 - June 2021

- Mentored **45+ national robotics/project teams**, and took **14 workshops** along with **40+ robotics-oriented classes** to train more than **150+ students** in high school
- Designed a teaching module for the ICT department of my school to improve the understanding of electronics among Notre Dame College students: a combined demonstration of **clock pulse generators, flip flops, registers, binary counters**, and a **7-segment display** on a breadboard.

Skills

Programming

Proficient: Java • Objective-C Familiar: C • C++ • Python • SQL • Swift

Technologies

Git • XCode • Etc • Etc • Etc • Etc