MD MONJURUL HASAN BHUIYAN

Engineering Student

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Passionate problem solver with experience in microcontrollers, control systems, and IoT-based projects. Proficient in cloud computing, Linux development, Unix system handling, and network administration (CCNA). Skilled in Python-based development, LaTeX for technical documentation, and automation technologies. Hands-on experience with CNC plotting systems, thermal sensors, and embedded systems. Actively participated in Inspire Leadership Programs, demonstrating strong analytical and leadership skills. Eager to leverage technical expertise in real-world applications through research, internships, and collaborative projects.

Skills

- Python (Intermediate) – OpenCV, Automation
- Bash Scripting
- LaTeX – Technical Documentation
- API development
- Unix/Linux System Administration
- Windows OS Configuration & Management
- Network Administration (CCNA)
- Cybersecurity Fundamentals | Penetration Testing | Man-in-the-Middle (MITM) Attacks | SQL Injection | Network Exploitation | Wireshark & Advanced Security Tools
- AWS & GCP Cloud Architecture
- Microcontroller Programming & Management
- Embedded Systems Development
- Control Systems & IoT Integration
- SolidWorks – 3D Modeling & Simulation
- Blender – 3D Visualization & Animation
- Processing – Computational Design
- QT & GTK3 – Cross-Platform UI Development
- Kinematics of Axial Robots
- CNC Plotting Systems
- Thermal Sensor Integration
- Multisim & OrCAD Circuit Simulation

Education

February 2025 – Present	**Bachelor of Science in Computer Science and Engineering** *BRAC University* – *Dhaka, Bangladesh*

October 2024 – February 2025	**Bachelor of Science in Electrical and Computer Engineering** *Major in Electrical and Electronics Engineering* *North South University* – *Dhaka, Bangladesh* (Left the program as it was not completed)
2021 – 2023	*Higher Secondary Certificate (HSC)* *National Ideal College* – *Dhaka, Bangladesh*

Projects

CNC Plotting System for Precision Drawing

Built a CNC plotting system to create accurate and detailed designs, integrating both hardware and software for precise control and drawing

Thermal Sensing System for Environmental Monitoring

Worked with Digitize IO to develop a thermal sensing system for environmental monitoring, utilizing temperature sensors to detect changes in heat patterns for real-time data collection.

IoT-based Smart Home System

Developed a smart home system utilizing IoT devices for remote control and monitoring of household appliances, enhancing energy efficiency and convenience.

Robo-Soccer Robot Development

Designed and programmed a robotic soccer player for the BRACU Traction Robo-Strikers competition

Accomplishments

- National Physics Olympiad Champion
- IOI Olympiad National Qualifier
- NSU Techfest Robo-Soccer Participant
- BRACU Traction Robo-Striker Participant
- Inspire Leadership Program Graduate
- OCW Top Performer
- MITx Certification

- Hackerspace Community Top Volunteer