

Md Naim

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#03, Chowhodditola, Chapai Nawabganj, Bangladesh



EDUCATION

B.Sc., Electrical and Electronic Engineering (EEE)

[2018 - 2023]

Shahjalal University of Science and Technology (SUST), Sylhet

CGPA - 3.32 out of 4.0

Higher Secondary School Certificate (HSC)

Notre Dame College (NDC), Dhaka

GPA - 5.00 (A+)

Group - Science

[2015 - 2017]

Secondary School Certificate (SSC)

[2014 - 2015]

Hari Mohan Government High School, Chapai Nawabganj

GPA - 5.00 (A+)

Group – Science

EMPLOYMENT

▪ Shanto-Mariam University of Creative Technology (SMUCT), Ad-hoc Lecturer

[Sept 2023 - Present]

- Designed and conducted courses (Electrical Circuits, Physics, Computer Fundamental)

THESIS & PROJECT EXPERIENCE

1. Final Year Thesis – “Black Phosphorus-Based FeFET Design and Investigation of its Transistor & Memory Applications”

- This research project explores the cutting-edge field of Black Phosphorus-Based FeFET design. We focused particularly on its remarkable dual functionality as both a transistor and a memory device. Our study highlighted its unique ability to store and erase data, suggesting a potential leap in memory systems' sophistication. With its performance surpassing traditional transistors, this research contributes to the advancement of semiconductor technology, marking a new era of multifunctional devices.

2. A Line Follower and Robo Fight Robot

- Designed, built, and programmed an Arduino-based line-following robot using C/C++, optimizing for accurate line tracking and speed in competitive events.
- Developed a Radio Controlled (RC) combat robot which can be controlled from a safe distance and with custom-designed weapons and defenses participated in multiple regional and national robotics competitions where C/C++ is used as a base code for the Arduino.

3. An Automatic Room Temperature Controller

- Designed and implemented an IoT-based temperature control system for a smart room where C/C++ is used for PID control algorithms to regulate temperature.
- Integrated sensors and actuators with microcontroller units are used to develop a user interface for remote monitoring and control.

4. Design and Development of an Underwater Autonomous Vehicle (UAV)

- Designed and implemented control systems for an underwater vehicle.
- Developed algorithms using both python and C/C++ for navigation and obstacle detection.
- Collaborated with a team to integrate hardware and software components.

5. A Prototype Development for an Autonomous Vehicle (Auto Mama)

- Developed embedded systems for an autonomous vehicle.
- Programmed microcontrollers for sensor integration and data processing.
- Designed and fabricated custom PCBs for vehicle control systems.
- Tested and refined algorithms for improved vehicle performance.

DEVELOPMENT SKILLS

| Programming Languages | Tools & Libraries | Platforms |
|---|---|---|
| <ul style="list-style-type: none">C/C++PythonMATLABArduinoSQL | <ul style="list-style-type: none">Visual Studio, Code BlocksPyCharmMicrosoft Office SuiteBlender | <ul style="list-style-type: none">Linux/UbuntuControl SystemsEmbedded SystemsIoT (Internet of Things)PCB Design |

INDUSTRIAL TRAINING

- Industrial Technology on Electrical Engineering and Instrumentation, Training Institute for Chemical Industries (TICI), Polash, Narsingdi, Bangladesh, August - September 2022

CERTIFICATIONS

- MATLAB course in Coursera- Introduction to Programming with MATLAB
- SQL for Data Science in Coursera
- Python Course and Workshop- A Basic to Advance Workshop on Python in RoboSUST
- Project Showcasing:
 - Boost Converter Design for a solar system (3rd year final project)
 - Robotic hand design for industrial automation (3rd year course project)
 - Water level indicator and motor control system (2nd year course project)

ACHIEVEMENTS

- Runners-up, Robo Fight Competition, United International University (UIU), 2022.
- Finalist, Singapore AUV Challenge (SAUVC), 2020.
- Runners-up, Robo Fight Competition, Islamic University of Technology (IUT), 2019.
- Participant, Various Robot Competitions (KUET, RUET, IUBAT), 2019, 2020 & 2022.
- Perfect Attendance, Notre Dame College, Dhaka, 2015 – 2017.
- 2nd Place, Storytelling Competition, Hari Mohan Govt High School, 2011.

LEADERSHIP & INVOLVEMENT

- Robotics & IoT Community**, Advisor (Sept 2023- Present)
Shanto-Mariam University of Creative Technology (SMUCT), Dhaka
- RoboSUST**, Vice President (2021 – 2022)
- IEEE SUST Student Branch**, Assistant General Secretary (2019 – 2021)
- Varendra Association**, Public Relations Secretary (2019 – 2020)

INTERESTS

- Photography
- Photo editing
- Cycling
- Short Story Writing
- Cricket
- Animation
- Online Problem-Solving
- Robotics

LANGUAGES

- English – Full Professional Proficiency
- Bengali (Native) – Full Professional Proficiency

REFERENCES

Dr. Ifte Khairul Amin

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Md. Naim

Signature