

# M Rifat Hossain

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## CAREER OBJECTIVE

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Become a good researcher and a better academician.

## EDUCATION

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- B. Sc. Engineering** on Electrical and Electronic Engineering
  - **Passing Year:** 2024
  - **Institution:** Shahjalal University of Science and Technology, Sylhet
  - **Major:** Optoelectronics
  - **CGPA:** 3.52/4.00
- Higher Secondary Certificate**
  - **Passing Year:** 2018
  - **Institution:** Dhaka Imperial College
  - **GPA:** 4.58/5.00
- Secondary Secondary Certificate**
  - **Passing Year:** 2016
  - **Institution:** Ideal School and College
  - **GPA:** 5.00/5.00

## EXPERIENCE

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- **Undergraduate Research Assistant** Mar 2022 - Nov 2023  
*Shahjalal University of Science and Technology* Sylhet
  - Project Completion: Wireless Charging Electric Vehicle
  - Reaching to media personnel
  - Confronting TV interview
- **Industrial Trainee** Sep 2023  
*Training Institute for Chemical Industries (TICI)* Ghorashal Fertilizer Factory, Palash
  - Hands-on experience on industrial equipments
  - Gaining skills in Instrumentation and Control Engineering

## PROJECTS

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- **Design and Implementation of a Light-duty Electric Vehicle Incorporated with Wireless Charging System** Aug 2022 - Nov 2023  
*IICT Building, SUST* ResearchGate
  - Wireless Power Transfer using induction technology
  - Building a basic light-duty EV
- **Wireless Communication System over N-Byte AES Encrypted Channel** Aug 2022 - Jan 2023  
*IICT Building, SUST*
  - Sound to byte data on each CLK pulse
  - Encryption-Transfer-Decryption
- **Guitar Tuner Device using Arduino** Jun 2022  
*IICT Building, SUST* Github
  - Audio analysis using Arduino

## PUBLICATIONS

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### • **Design and Simulation of PIN Double Heterostructure GeSnC LED**

Mar 2024

*Undergraduate Dissertation*

## SKILLS

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- **Language:** Bangla (Primary Language), English (Fluent)
- **Programming:** Assembly\*, C/C++/C#, Java, LaTeX, MATLAB, Python
- **Simulation Software:** COMSOL, DSCH, LTSpice, Microwind, PSIM\*, SIMULINK
- **Non Technical:** Anchoring, Event Management, Leadership, Organizing, Team Work  
*\* Novice: limited experience*

## EXTRACURRICULARS

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- **Vice President**, Shahjalal University Speakers' Club (SUSC) *Mar 2022 - Nov 2023*
  - Maintaining order
  - Conducting regional and national events from the club
  - Automation of the SMS invitation process
- **General Secretary**, EEE Society, SUST *Dec 2021 - Mar 2023*
  - Maintaining order
  - Conducting events in the department
- **ICT Secretary**, Ideal Science and Technology Aiming Research Council (ISTARC) *Oct 2014 - Jan 2016*
  - Graphics designing for events and social media posts

## PERSONAL DETAILS

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Name : M Rifat Hossain  
Father's Name : Md. Jahangir  
Mother's Name : Mst. Selina Jahan  
Sex : Male  
Marital Status : Single  
Religion : Islam  
Nationality : Bangladeshi (by birth)  
Date of Birth : June 17, 2000

## REFERENCES

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### • **Nafis Imtiaz Rahman**

*Assistant Professor, dept. of EEE, SUST*

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### • **Naima Sultana Alam Supti**

*Lecturer, dept. of EEE, SUST*

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