

Farhan Arefin Khan

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EDUCATION

Sylhet Engineering College

2020 - 2025

Bachelor of Science in Electrical and Electronic Engineering (EEE).

CGPA: 3.57 out of 4.00

Thesis: Detection And Classification Of 2D Material Flakes Using Ensemble GMM And Neural Networks

CERTIFICATIONS

Control Design Onramp with Simulink

MATLAB Academy •

2024

30 Days Webinar Participation on PLC, VFD, HMI

Gobeshona Learning Academy •

2024

VLSI System On Chip Design - Overview

Maven Silicon •

2025

PROJECT

Three-Phase Inverter System using IGBT and Arduino

Sylhet Engineering College

Smart Light Switch with Manual and Automatic Control

Sylhet Engineering College

COURSEWORK

Electrical Properties of Materials

Digital Electronics

Introduction to Computer Language

Microprocessor and Embedded Systems

Power Electronics

Control System I

Power System I & II

Digital Signal Processing

Electronics I & II

Communication I

Power Plant Engineering

Continuous Signals and Linear System

Very Large Scale Integration (VLSI)

Fundamentals of Biomedical Engineering

INVOLVEMENT

Served as Cultural Secretary

Sylhet Engineering College • EEE Association • August 2024 - July 2025

SKILLS

Programming & Scripting: Python, C, C++, MATLAB, HTML, CSS, JavaScript

Embedded Systems: Arduino, ESP32, Proteus

Web Development: HTML, CSS, JavaScript, React

Machine Learning & Deep Learning: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV Image Classification, Semantic Segmentation, CNNs

Simulation & Design Tools: MATLAB, Simulink, AutoCAD, SAM (System Advisor Model)

Data Analysis & Visualization: Excel, PowerPoint, Matplotlib, Seaborn

Productivity & Collaboration: Jupyter Notebook, Git, GitHub, Microsoft Word, Excel, PowerPoint

Soft Skills: Curious, Problem-Solving, Teamwork, Quick Learner, Presentation Skills, Self-Motivation, Leadership

PROGRAMMING EXPERIENCE

PROBLEM SOLVING •

CODEFORCES: • Solved 300+ problems • Max rating: 1009, newbie

CODECHEF: • Solved 150+ problems • Max rating: 1436, 3 Star Coder

Other: (LeetCode, LightOJ, UVA, CSES) • Solved 50+ problems on Data structure and Algorithm

PROFESSIONAL TRAINING

Industrial Technology on Electrical Engineering & Instrumentation

Training Institute for Chemical Industries (TICI), Narsingdi, Bangladesh. Obtained A+ grade

January 2024 - January 2024, narsingdi

Single Phase Electrical Wiring and Installation

Sylhet Engineering College

May 2023 - May 2023, Sylhet

