






Abid Hasan

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SUMMARY

Fresh undergrad ready to face the challenges of the industry.

PROJECTS

1. Robotic Scorpion based on Arduino (Team Project)

[Link to Demo](#)

Key Skills:

Design and modeling the robot and 3D printing parts.
Programming Arduino UNO to control the robot.
Wireless connectivity using Bluetooth and control via Android app.

2. Thesis: Response of an SMA-attached Aluminium Cantilever Beam under Forced Vibration

Key Skills:

Design and Build the Shaker Machine for vibration experiments.
Plan and implement the Data Acquisition System.
Program ESP32 to interface with accelerometer and record data.
Analyze data using Python NumPy and MATLAB.

3. Medical Report System

[Link to Demo](#)

Key Skills:

Basic Web development using python web frameworks.
HTMX with Bootstrap for UI.
PostgreSQL database on the backend.

4. Online Fourier Series Calculator

[Link to Demo](#)

Key Skills:

Quick Web development using Streamlit.
Fourier Series Calculation and plot using SymPy.

EDUCATION

2020 - 2025	B.Sc (Mechanical Engineering) at BUET	(CGPA: 2.8/4.0)
2019	HSC Dhaka Board	(GPA: 5.00/5.00)
2017	SSC Dhaka Board	(GPA: 5.00/5.00)

SKILLS

Design/Modeling	AutoCAD, SolidWorks, Ansys
Robotics	Arduino, ESP32
Operating System	Windows, Linux
Programming Language	C, Python, Matlab, JavaScript
Web Development	Flask/Django, Streamlit, PostgreSQL