SHADMAN MUBASSHIR

MECHATRONICS ENGINEER

+8801790282134
SHADMAN97.RUET@GMAIL.COM
LINKEDIN.COM/IN/SHADMAN97
KHILGAON, DHAKA

OBJECTIVE

I look forward to working in a dynamic organization where I can grow professionally and personally by leveraging my interpersonal as well as academic expertise. I have a strong interest in the engineering sector, coupled with a keen aspiration to pursue managerial roles that integrate technical expertise with leadership responsibilities. My technical interests lie in Computer Aided Design (CAD), CAD Automation, sensors & instrumentation, industrial automation and PLCs, embedded systems, and robotics.

EDUCATION

May 2024

B.Sc. (Engg.) in Mechatronics Engineering
Rajshahi University of Engineering & Technology (RUET),
Kazla, Rajshahi-6204, Bangladesh.

Grade: CGPA 3.68 out of 4.00 (1st class 5th)

Relevant Courses: *Computer Aided Design, Engineering Drawing, Automation, Design of Mechatronic Systems, Sensors and Instrumentations, Computer Integrated Manufacturing, Human-Machine Interaction, Industrial Management, Machine Dynamics and Vibrations, Thermo & Fluid Dynamics.*
Awards: University Technical Scholarship in all 8 semesters.

July 2018

Higher Secondary Certificate (HSC)
Saint Joseph Higher Secondary School (English Version),
97, Asad Avenue, Mohammadpur, Dhaka 1207, Bangladesh.
Grade: GPA 4.83 out of 5.00
Awards: Golden Boy Award

May 2016

Secondary School Certificate (SSC)
Ideal School & College (English Version), Motijheel, Dhaka-1000, Bangladesh.
Grade: GPA 5.00 out of 5.00

EXPERIENCE

September 2024 -

November 2024

Trainee Mechanical Design Engineer,

BJIT LTD

Training Scope:
• CAD Automation using Python (Pycatia)
• CAD using CATIA V5
• PDM / PLM softwares like Teamcentre, Enovia

• Creating design macros using SOLIDWORKS API and Visual Basics

April 2022	**Engineering Intern,** **Bangladesh Industrial & Technical Assistance Centre (BITAC), Tejgaon.**

Acquired hands-on experience in operating and managing various CNC machines, enhancing proficiency in precision machining and automation technologies contributing to a comprehensive understanding of industrial manufacturing processes.

RESEARCH

May 2024	**Undergraduate Thesis**

Machine Learning Model Compression for TinyML Implementation

- Analyzed & evaluated the variety of model compression approaches which can reduce the size of large AI models retaining most of their accuracy to be implemented on resource-constrained devices.
- Findings presented via PowerPoint to more than 50 people in a seminar every week regarding the course requirements.

January 2024	**Journal:** *Machine Learning with Applications*

- Wrote a review paper titled "**An Analytical Review on TinyML for Embedded Systems: Current Trends Challenges and Future Directions**." And it is currently under review.

December 2022	**5th International Conference on Mechanical, Industrial and Materials Engineering 2022 (ICMIME2022)**

- Published conference paper titled "**IoT Based Multi-Purpose Smart Automated Gas Hazard Prevention System**" as the first author.
- Developed a safety-focused project ensuring efficient gas hazard prevention through IoT technology featuring automated gas leak detection and prevention.

CO-CURRICULAR

2022-2023	**Executive Member** Robotic Society of RUET (RSR)
2019-2023	**Executive Member** Photographic Society of RUET (PSR)
2010-2014	**Debater** Ideal Debating Club, Ideal School & College

SKILLS

Engineering	**PLC: Languages**-*Ladder Diagram, SFC, ST, FBD, IL.* **Software-** *Logo soft.* **CAD (3D modeling & Stress Analysis):** *SOLIDWORKS.* **Electronics (Digital Circuit Design):** *Logisim.*

	Computational Analysis (Control System, Signals): *MATLAB.* **Electrical simulation (PCB design):** *Proteus.* **Coding Basics***: C, C++, Python.*
Languages	Proficient in English speaking and writing. Attended English Version of the national curriculum in school & college.
Computer	**Microsoft Office:** *Microsoft Word, PowerPoint, Excel & Visio.* **Others:** *Adobe Illustrator.*

SKILLS

Interpersonal	Teamwork, Scientific temperament, Leadership, Professionalism, Punctuality, Perseverance.

CERTIFICATIONS

Wadhwani Foundation	**Job Ready Employability Skills**
COURSERA	*Getting Started with Python (Completed)*
University of Michigan	*Python Data Structures (Completed)*
	Using Python to Access Web Data (Completed)

REFERENCES

Md. Mehedi Hasan Assistant Professor, Department of MTE Rajshahi University of Engineering & Technology (RUET), Rajshahi. Contact no: 8801701072421	**Engr. Md. Masud Rana** Deputy General Manager, Jalalabad Gas Distribution & Transmission System Ltd., (A Company of Petrobangla), Gas Bhaban, Mendibagh, Sylhet. Contact no: 8801781345313