FAHIM SHAHRIAR ANIM

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PERSONAL STATEMENT

Aiming to promote personal and professional growth by taking on new challenges and offering fresh perspectives to strategic projects. With a strong foundation in teamwork, creative thinking, leadership and a solid technical foundation in semiconductor devices, circuit design and analysis, I am eager to deepen my skills and contribute to innovative projects that push the boundaries of computing technology.

CORE QUALIFICATIONS

- Analog Integrated Circuit Design
- Digital Electronics
- ML/DL
- Microprocessor & Embedded Systems
- PCB Design
- Quantum Computing
- Robotics and Automation

EDUCATION

Bangladesh University of Engineering and Technology, *Dhaka (2019 - Present)*
B.Sc in Electrical and Electronic Engineering *(Expected Graduation – March 2025)*
CGPA – 3.72/4.00 (Upto 7th Semester)

Notre Dame College, *Dhaka (2017 - 2019)*
Higher Secondary Certificate (HSC), Group: Science
GPA 5.00 / 5.00

Ideal School and College, *Motijheel, Dhaka (2009 - 2017)*
Secondary Secondary Certificate (SSC), Group: Science
GPA 5.00 / 5.00

EXPERIENCE

Member, Software Team, 07/2022 – 06/2023
Team Interplanetar-BUET MARS ROVER TEAM, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Had firsthand experience in ROS and Arduino interfacing of the Mars Rover.

Mentee, R&D Team, 11/2021 - 01/2022
Inovace Technologies, Dhaka, Bangladesh
Learned about embedded systems used in one of their products 'Tipsoi' and got hands on experience by working in a project using Arduino.

Industrial Attachment

Internship Trainee, 25/06/2024 – 5/07/2024
Dhaka Electric Supply Company Ltd., Dhaka, Bangladesh
- Gained insights on electric power supply, distribution and SCADA system.

Technical Skills

- Cadence Virtuoso, NC-sim, Genus, Innovus
- Quartus
- Python: Qiskit, Qiskit Metal, Pytorch
- Proteus
- Matlab
- Arduino
- C, C++
- Keil µvision

Research Experience

Undergraduate Thesis
- Currently pursuing my thesis on Quantum Chip Design using Superconducting Qubits.

Projects

- **VLSI:**
  - ❖ *Design of an Analog 8:1 Multiplexer*
    Designed a multiplexer in Cadence Virtuoso according to given specifications.
  - ❖ *Design and Optimization of a 12-bit Asynchronous Counter*
    Designed, Synthesized and Optimized a 12-bit Asynchronous Counter using Cadence tools according to given specifications.
- **Digital Electronics:**
  - ❖ *SmartServe: Designing an Intelligent and Interactive Vending Machine System*
    Implemented a vending machine logic using Verilog and FPGA (Altera UP2 Education Board).
- **Microprocessor and Embedded Systems:**
  - ❖ *Development of an IoT based Bangla Calendar Clock 3.0*
    Implemented a Bangla Calendar Clock with custom font and layout using Arduino and NodeMCU.
- **Control Systems:**
  - ❖ *Self-Balancing Monopod: A Reaction Wheel Inverted Pendulum*
    Implemented a reaction wheel inverted pendulum.

Honours and Awards

- **Dean's List Award:**
  Scholarship awarded by BUET for outstanding academic performance in two out of four academic levels of undergraduate studies.
- **Board Scholarship (Talentpool):**
  Government scholarship awarded by Dhaka Education Board for brilliant academic performance in Higher Secondary and Secondary School Certificate public exams.
- Honorable mention in PCB design contest organized by IEEE Robotics and Automation Society, BUET