

Hriduan Omor Siam

Electrical & Electronic Engineering (Final Year Student)

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ABOUT ME

I am a final-year Electrical and Electronic Engineering student with a deep passion for electronics and automation. I love getting my hands dirty building practical projects that actually solve real-world problems. Whether it's designing a smart farming system or organizing student events, I always put my heart into what I do and strive to learn something new every day.

EDUCATION

American International University-Bangladesh (AIUB) | Dhaka, Bangladesh

BSc in Electrical and Electronic Engineering (EEE) — Final Year (CGPA: 3.87)

Mymensingh Polytechnic Institute | Mymensingh, Bangladesh

Diploma in Electronics Engineering — Graduated in 2023 (CGPA: 3.18)

Saint Andrews's High School | Haluaghat, Mymensingh

Secondary School Certificate (Science) — Graduated in 2017 (GPA: 4.55)

PROJECTS

- **FSMD Controller for ASIC & FPGA:** Designed and implemented a Finite State Machine with Datapath (FSMD) controller tailored for ASIC and FPGA platforms. Synthesized the logic architectures and simulated timing paths utilizing System Verilog alongside Cadence tools to ensure optimized hardware performance.
- **Digital Voting Machine:** I built an electronic voting system that scans NID cards to automatically verify voters. I wanted to create something that makes the voting process secure and reliable.
- **Smart Agriculture Model:** I designed and put together a smart farm prototype. It includes an automatic irrigation setup, a food dispenser and an RFID card system to keep the farm entrance secure.
- **Solar Street Light & Phone Charger:** Using basic components like diodes and op-amps, I created a functional, solar-powered street light that also doubles as a convenient mobile phone charging station.
- **Ultrasound Sonar & RFID Access:** Developed an ultrasound sonar system utilizing Arduino, integrated with an RFID access and control mechanism.
- **Audio Signal Filtering:** Built a project to effectively process and filter audio signals by designing bandpass and low pass filters using MATLAB.

LEADERSHIP & EXPERIENCES

- **Student Representative:** During my diploma final year, my teachers selected me to handle all the daily operations in the hostel. I took care of daily management and organized several events to keep our student community active and engaged.
- **Continuous Learner:** I regularly attend engineering seminars at my university to keep up with the latest industry trends and learn beyond my regular classroom syllabus.
- **Poster Presentation Participant:** Participated in the Poster Presentation competition as Author organized by the Bangladesh Youth Nuclear Congress (BYNC), as part of I4N x INNOVENTURE Bangladesh 2026.
- **VLSITHON 3.0 Participant:** Participated in VLSITHON 3.0 as a group Leader, organized by Ulkasemi.
- **Semiconductor Symposium Attendee:** Attended the National Semiconductor Symposium & BEAR Summit 2026.
- **Industrial Tour:** Attended an industrial tour to PGCB (Power Grid Company of Bangladesh), organized by my university.

SKILLS

- **Technical Skills:** Circuit design, working with microcontrollers and RFID, electronics engineering and building solar energy setups.
- **Programming Skills:** C/C++ (Intermediate), MATLAB and System Verilog (Intermediate).
- **Simulation Skills:** Multisim, Tinkercad, Cadence Virtuoso, Cadence Xcelium, Cadence Genus, Cadence Innovus, AMD Vivado Design Suite and RealVNC.
- **Soft Skills:** Handling paperwork and documentation organizing events, leading teams and communicating effectively with others.

DECLARATION

I hereby declare that all the information provided above is true and accurate to the best of my knowledge and belief.



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