Saiful Islam Shanto

Home : House #06,Road # W-1,Block # F,Pallabi 2nd Phase, Mirpur 12,Dhaka, 1216, Dhaka, Bangladesh

Email: saifulshanto333@gmail.com **Phone:** (+880) 1540119722

Facebook: Saiful Shanto **LinkedIn:** Saiful Islam Shanto

Github: Saiful Islam Shanto

ID: 2423326889 **Date of birth:** 19/11/2003 **Place of birth:** Dhaka, Bangladesh **Nationality:** Bangladeshi

ABOUT ME

A passionate Mechatronics Engineering student with hands-on experience in Arduino programming, circuit design, PCB design, and embedded systems. Dedicated to learning and contributing to innovative technology solutions with a goal to pursue advanced studies and impactful engineering roles.

WORK EXPERIENCE

Embedded Innovators

City: Khulna | **Country:** Bangladesh

[30/03/2025 – Current] **Embedded Systems Trainee**

I have been actively engaged in the design, development, and testing of microcontroller-based embedded systems. My responsibilities include programming microcontrollers such as Arduino UNO and ESP32, integrating various sensors and actuators including ultrasonic sensors, IR modules, servo motors, and LCD displays, and ensuring system functionality through systematic testing and debugging. I have contributed to the development of automation projects such as a smart parking system and an automatic water pump controller, both involving real-time data monitoring and user interaction via hardware interfaces. Additionally, I assist in documenting circuit diagrams, code flow, and testing procedures, while collaborating with a multidisciplinary team to brainstorm and implement efficient solutions. This role has also encouraged continuous learning through practical exposure to embedded C/C++, circuit design, and hardware troubleshooting.

EDUCATION AND TRAINING

[01/10/2023 – Current] **Bachelor of Science in Mechatronics Engineering**

Khulna University of Engineering and Technology https://kuet.ac.bd/

City: Khulna | **Country:** Bangladesh |

[24/09/2020 – 19/12/2022] **Higher Secondary Certificate (HSC)**

B C I C College https://bciccollege.edu.bd/

City: Dhaka | **Country:** Bangladesh |

[01/01/2012 – 06/03/2020] **Secondary School Certificate (SSC)**

Mirpur Bangla Higher Secondary School

City: Dhaka | **Country:** Bangladesh |

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING B2 **READING** C1 **WRITING** B1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Information and Data Literacy | Communication and Collaboration | Team-work oriented | Problem Solving Skills. ... | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Social Media

PROJECTS

[10/03/2025 – Current] **Line Following Robot**

This robot is an autonomous robot designed to detect and follow a path, typically marked by a line on the ground. It uses sensors, such as infrared or color sensors, to detect the line and adjust its motors to stay on track. The robot is programmed to make real-time decisions, correcting its course whenever it veers off the line. This robot is commonly used in competitions, where it races along a predetermined course with speed and precision, requiring efficient sensor integration and motor control.

[28/05/2025 – 31/05/2025] **DIGITAL PARKING SYSTEM**

The "**DIGITAL PARKING SYSTEM**" is a microcontroller-based project developed using Arduino UNO to manage four parking slots efficiently. IR sensors detect vehicle presence, and a 16x2 LCD displays the real-time status of each slot as “Occupied” or “Available.” A servo motor controls the entry gate, opening only when a slot is free, ensuring smooth and organized parking. Designed as an offline system, it operates without internet connectivity, offering a cost-effective and practical solution for small-scale parking management.

[10/02/2025 – Current] **"IntelliPark" - Automated car locking and IoT based IEE system**

This IoT-based parking system uses LDR sensors to classify rush hours, color sensors to detect cars in designated areas, and servo motors to auto-lock cars in authorized slots after a set time. It sends real-time notifications about fees and fines to drivers and integrates sensors with Arduino, connecting everything to a Blynk app for remote monitoring and control.

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