

# Md. Sajidur Rahman

✉ mdsajidurrahman375@gmail.com ☎ +8801311314838 🌐 Md. Sajidur Rahman Labib

## Skills

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- **Languages:** C/C++, Python, HTML, CSS, JavaScript, PHP, SQL
- **Technologies / Tools:** Git, GitHub, Visual Studio, Conda, Jupyter Notebook, OpenCV, Tailwind CSS, Bootstrap, Figma, Heroicons, Font Awesome, React.js, Next.js, Redux, Node.js, Express.js, MySQL, MongoDB.

## Technical Proficiencies

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- **Simulation Modeling:** MATLAB, Simulink, COMSOL Multiphysics.
- **Network Simulation:** Cisco Packet Tracer.
- **PCB Design:** Proteus.
- **Industrial Systems:** DCS (Distributed Control System), Automated Control, Sensor-Actuator Interfacing.
- **Operating Systems:** Basic knowledge of Linux (commands, package management, navigation).

## Soft Skills

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- Teamwork and Collaboration
- Communication and Presentation
- Critical Thinking

## Education

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### Rajshahi University of Engineering & Technology (RUET), Bangladesh

B.Sc. in Electrical & Computer Engineering

Jan 2020 – Jun 2025

CGPA: 3.53

### Ibn Taimiya School & College, Cumilla, Bangladesh

Higher Secondary Certificate (HSC)

2017 – 2019

### Ashuganj Tap Bidyut Kendra High School, Brahmanbaria, Bangladesh

Secondary School Certificate (SSC)

2017

## Project Work

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### Your Shop (2025)

(Web Project)

A full-stack e-commerce app built with the MERN stack featuring JWT authentication, Stripe integration, and modern UI/UX using Tailwind CSS. It includes user-facing pages, admin dashboard, and RESTful APIs.

**Project Link:** Codeclusters

**Live Website:** YourShop2

## Training Experience

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### Industrial Training — Code Studio, Rajshahi

(Apr 2024 – May 2024)

**Key Skills:** React.js, Tailwind CSS, JavaScript, HTML/CSS

**Project:** Developed a responsive frontend e-commerce system with dynamic cart and product integration.

**Additional Attachment:** Hands-on experience at APSCL (Ashuganj Power Station Company Limited) with gas/steam turbines and combined cycle systems.

## Academic Projects

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**Thesis Topic:** Optimal Control Strategies for EV and Measurement of Performance using PID & LQR Controller

**Salary Management of a Powerplant**

*(Web Project)*

**Technologies:** PHP, JavaScript, CSS, HTML

**Description:** Designed a web system for powerplant salary operations with admin control and secure login.

**Repository:** [Powerplant](#)

**Line Follower Robot (PID-Controlled)**

*(Hardware Project)*

**Technologies:** Embedded C, Arduino, IR Sensors, Motor Driver, PID Control

**Description:** Developed a real-time PID-based robot for line tracking with precision motor control.

**Paste Detection (YOLO-Arduino)**

*(ML + Embedded)*

**Technologies:** Python, YOLO, Arduino, Serial Communication

**Description:** Built a real-time object detection system linked with Arduino for hardware control.

**Repository:** [Paste Detection](#)