



Pintu Shaw

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Embedded Systems Engineer (5+ years) skilled in firmware development, PCB design, and IoT solutions. Experienced with **ATMega series, ESP32, STM32**, using **Atmel Studio & Arduino IDE**. Worked on **UART, SPI, I2C, RS485** interfaces and IoT protocols **HTTP/HTTPS, MQTT, WebSocket**. Currently exploring basic web & app development using AI tools to create innovative tech solutions.

EDUCATION

- B.Tech in Electrical & Electronics Engineering – MAKAUT University (2019)
- Higher Secondary (12th), WBCSE (2014)
- Secondary (10th), WBBSE (2011)

TECHNICAL SKILL

- Microcontrollers: Arduino, ESP32, AVR, STM32
- Languages: Embedded C
- IoT & Connectivity: MQTT, HTTP,
- GSM, Wi-Fi, LAN, WebSocket
- PCB Design Tools: Proteus
- Simulation Tools: Proteus
- Others: Web Page using AI Tools

CERTIFICATION

- Embedded Microcontroller & Basics Robotics & PCB Designing
- IoT Developer

Academic Projects

- Smart Trashbin
- Industrial Control & Automation System

Industrial Projects

- Fire & Burglar Alarm System
- Smart Coffee Vending Machine
- Industrial 6 DOF Arm controller
- 3.3KWatt EV Charger
- Texecom Panel GSM Card
- Smart IoT Auto Dialer Series
 - MQTT Based
 - HTTPS Based
- ComIP Running

Work Experience:

Company: Chandrani Compliments & Exports Pvt. Ltd

Post: Jr. Project Developer

8th Nov, 2019

My role involved developing Fire & Burglar Alarm Control Panels, including firmware and hardware functionality. I was responsible for prototype electronic circuit design and PCB development, along with testing and validation. Additionally, I performed reverse engineering to redesign or modify existing circuits and PCBs for improvements and optimization.

22nd Aug, 2020

Company: IECT Electronics

Post: Robotics Trainer & Project Developer

27th Sep, 2021

My key role was to train students with a technical background in Basic Robotics, Basic Electronics, Microcontroller programming (C language), and PCB Design. Along with training, I also developed projects received from external clients. Major projects delivered include:

1. Smart IoT Coffee Machine (QR-based Access Control)
2. EV Charger (Smart power management & control system)
3. 6-DOF Robotic Arm Controller (Microcontroller-based)

5th Aug, 2024

Company: Security Engineers Pvt. Ltd

Post: Hardware Design Engineers

2nd Sep, 2024

In this role, I am responsible for designing IoT-enabled hardware products. The objective is to convert existing non-IoT Fire Alarm and Burglar Alarm systems into IoT-capable devices by developing communication and remote monitoring modules. My responsibilities include hardware design, schematic + PCB development, firmware development, testing, and field integration.

Projects Completed:

1. GSM Card for Texecom Fire/Burglar Panel.
2. IoT-Based Auto Dialer Series (Cloud Monitoring Solutions)
 - o MQTT-Based Auto Dialer
 - o HTTPS API-Based Auto Dialer
3. ComIP Module (In Progress)

Present