

Ishwar Chauhan

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EDUCATION

Institute of Engineering and Rural Technology , Prayagraj

Prayagraj | Aug 2022 – May 2026

B.TECH IN INSTRUMENTATION AND CONTROL ENGINEERING (CGPA: 7.50)

Current Semester: 8th

Baba Saiyyad Inter College, Sikriya, Ballia

Ballia | 2021

12TH STANDARD | 82%

Baba Saiyyad Inter College, Sikriya, Ballia

Ballia | 2019

10TH STANDARD | 79%

SKILLS

Machine Vision:	Vision System (Keyence), VS Creator Tool, Industrial Vision Applications
Industrial Networking:	Modbus, Ethernet/IP, Profibus Basics, Communication Protocols, RS-232/RS-485
Automation:	PLC, SCADA, HMI
Instrumentation:	Sensors, Transducers, Industrial Instrumentation
Control Systems:	AC/DC Motors, VFD Basics, PID Controller
Software Tools:	Allen Bradley MicroLogix 1000 (PLC Programming), MS Excel, PowerPoint, Word

INTERNSHIP

BANARAS LOCOMOTIVE WORKS | INTERN

Varanasi | 1 July – 28 July 2025

- Gained practical exposure to locomotive electrical systems and industrial instrumentation used in railway operations.
- Studied the working of sensors, transmitters, control panels, and protection systems used in locomotives.
- Assisted engineers in inspection, diagnostics, and testing of electrical and control circuits.
- Learned industrial safety standards, wiring practices, and preventive maintenance procedures.
- Prepared basic technical reports and documentation under the guidance of senior engineers.

PROJECTS

ARDUINO-BASED ULTRASONIC RADAR SYSTEM FOR OBJECT DETECTION

ARDUINO UNO,

ULTRASONIC SENSOR (HC-SR04), SERVO MOTOR | NOV 2023 – MARCH 2024

- Designed and developed a radar-like object detection system using Arduino and ultrasonic sensing.
- Integrated an ultrasonic sensor with a servo motor to perform angular scanning from 0° to 180°.
- Calculated object distance in real time using echo time and speed of sound principles.
- Displayed angle-wise distance data on the serial monitor for visualization and analysis.

SMART IRRIGATION SYSTEM USING ARDUINO

ARDUINO UNO, SOIL MOISTURE SENSOR, RELAY

MODULE, WATER PUMP | APR 2024 – JULY 2024

- Designed an automatic irrigation system that operates based on real-time soil moisture levels.
- Interfaced soil moisture sensors with Arduino for continuous monitoring of soil condition.
- Controlled water pump operation using a relay module for safe and efficient switching.
- Reduced water wastage by automating irrigation decisions based on actual requirements.

INTERESTS AND HOBBIES

Industrial Automation, Technology Learning, Watching Movies, Music