

# Harshvarn Patel

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## SUMMARY

A proactive Bachelor of Technology student in Electrical Engineering at DRIEMS University, eager to leverage my skills, gain valuable experience, and contribute effectively to innovative projects. I have hands-on experience in vehicle inspection and quality assurance and have led significant engineering projects.

## EXPERIENCE

### TI Clean Mobility Pvt. Ltd.

*Quality Inspector*

Part of Murugappa Group

*Present*

- **Responsibilities:** A Quality control Engineer in an auto assembly plant ensures vehicles are built to high-quality standards. They optimize assembly processes and lead continuous improvement efforts to boost efficiency and product reliability.
- Ensure vehicles are built to high-quality standards
- Optimize assembly processes
- Lead continuous improvement efforts to boost efficiency and product reliability

## INTERNSHIPS EXPERIENCE OVERVIEW

### Bihar State Power Transmission Company Ltd.

*Intern*

Bihar, India

07/2023 – 07/2023

- **Tasks:** Study of Protection System and Equipment of Substation 220/132/33KV. Study of Protection System and Equipment of Substation 220/132/33KV. In-Plant Training under the supervision of Assistant Executive Engineer.
- **Achievement:**
- During my in-plant training under the supervision of an Assistant Executive Engineer, I undertook an in-depth study of the protection system and equipment of a 220/132/33KV substation. This experience was instrumental in broadening my knowledge and honing my skills in the field of electrical engineering. Here are some key achievements and tasks accomplished during this period:

- **Indian Railway PLW**

*Intern*

Punjab, India

07/2022 – 08/2022

- \* **Tasks:** Analyzing and Assembling Engine and Locomotive Parts .Collaborated with a team of engineers to analyze, assemble, and test engine and locomotive components - Utilized problem-solving skills to troubleshoot and diagnose mechanical issues - Contributed to the enhancement of locomotive performance and efficiency - Gained practical experience in engineering processes and quality control.
- \* **Achievement:**
- \* Throughout my journey, I have gained valuable practical experience in engineering processes, emphasizing a keen eye for detail and adherence to stringent quality control standards. My commitment to achieving milestones and tasks has resulted in notable achievements in optimizing locomotive operations.

## EDUCATION

### DRIEMS University

*Bachelor of Technology in Electrical Engineering*

**CGPA:** 7.0/10

Cuttack, Odisha, India

08/2020 – 05/2024

### LP Shahi College

*Bihar School Examination Board (BSEB)*

Patna, Bihar, India

03/2018 – 03/2020

### Patna Convent School

*Central Board of Secondary Education (CBSE)*

Patna, Bihar, India

03/2017 – 03/2018

## TECHNICAL SKILLS

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**Skills:** Quality Control, Process Quality Inspection, Project Management, Creativity, Communication

**Software:** Microsoft Word, Excel, PowerPoint, Access

## PROJECTS

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### Thermal Power Plant Model

Cuttack, Odisha, India

*Team Leader*

03/2024 – 04/2024

- \* **Key Responsibilities -:** Team Size: 19 Members
- \* Led a team in the development of a fully functional thermal power plant model.
- \* Oversaw project planning, resource allocation, and timeline management to ensure timely completion.
- \* Coordinated project aspects, ensuring all team members understood their roles and worked efficiently.
- \* **Key Contributions -:**
- \* Designed and constructed critical components, including boilers, steam turbines, and electrical generators. -
- \* Collaborated with the engineering team to ensure accurate design and cohesive operation of all components. -
- \* Conducted detailed research on thermal power plant mechanisms to create a scaled-down, functional model.

### Visitor Counter

Cuttack, Odisha, India

*Project Leader*

03/2024 – 04/2024

- \* **Project Overview:** This project aims to design and build a visitor counter using Arduino, which tracks the number of people entering and exiting a room. The system uses Passive Infrared (PIR) motion sensors to detect human movement and displays the real-time count of people inside the room on an LED display. One sensor detects entry, and another detects exit, ensuring the system maintains an accurate room occupancy count.
- \* **Components Required :**
- \* Arduino Uno: Processes sensor inputs and updates the display.
- \* PIR Motion Sensors (2 units): Detect entry and exit by sensing human infrared radiation.
- \* LED Display (7-Segment or LCD): Shows the real-time occupant count.
- \* Resistors: Protect the components by limiting current.
- \* Wires and Breadboard: Used for component connections.
- \* Power Supply: Powers the Arduino and sensors.

## AWARDS & HONORS

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Lead College Fest

Led Blood Donation Camp in College

100 Meter 2nd Rank Holder

## STRENGTHS & WEAKNESSES

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### 8.0.1

**Strengths** Adaptability : I can adjust to new situations and challenges easily.

**Weaknesses** Anger : I recognize that anger can be a weakness for me. At times, it leads to impulsive reactions and conflicts, which can negatively impact my relationships and decision-making. However, I also see that my anger can serve as a powerful motivator. When I feel angry, it often drives me to learn something new or to tackle challenges with determination.