

# SUMIT KUMAR SABAT

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## PROFILE

Highly motivated final-year Electrical and Electronics Engineering student with a passion for technical projects and process enhancement. Currently gaining experience in NPI projects at Foxconn as a Trainee in the Automation and Application Engineering Department. Skilled in failure analysis, technical presentations, machine calibration, and technical project management. Committed to environmental responsibility and community impact through volunteer work. Eager to leverage my skills and knowledge in a full-time role after graduation.

## LANGUAGES

- English
- Hindi
- Odia
- Kannada (Basic)

## SKILLS

- Technical Project Management
- Failure Analysis
- Process Optimization
- Design of Engineering
- Statistical Data Analysing
- Technical Presentations
- Effective Communication

## CERTIFICATIONS

### Foundation of Project Management by Google

- Gained foundational knowledge in planning and implementing projects for organizational success.
- Learned project life cycles and the significance of each stage, including resource planning.
- Studied Waterfall and Agile management methodologies, along with change management and organizational structures.

## EXPERIENCE

### Automation and Application Engineer Trainee Jan 2024 - Present Foxconn

- Managed NPI automation projects, ensuring on-time machine integration and customer deadline adherence. Led a machine installation team to complete setup 4 days early (18% improvement) and identified areas for improvement to streamline automation workflows.
- Performed machine calibration and Design of Experiments (DOE) processes to ensure accuracy and performance. Assisted in developing Standard Operating Procedures (SOPs) for operating and maintaining automation equipment.
- Collaborated with vendors to achieve Capability Potential (Cpk) and Gauge Repeatability and Reproducibility (GRR) requirements, maintaining quality standards and optimizing timelines.
- Delivered technical presentations and failure analysis reports to senior management. Coordinated across teams to ensure seamless NPI transitions and investigated and resolved process failures for continuous improvement.

## PROJECTS

### Raspberry Pi IoT Garbage Monitoring System

Dec 2023 - Jan 2024

- Developed an IoT-based garbage monitoring system using a Raspberry Pi as the central processing unit, with ultrasonic sensors (HC-SR04) to measure bin fill levels.
- Integrated WiFi module (ESP8266) for internet connectivity and an LCD display for local status updates.
- Implemented LEDs and a buzzer for local alerts when bins are full, ensuring efficient waste management.

### Home Based Automation System using Arduino

Dec 2023 - Jan 2024

- Built the automation system using Arduino mega 2560 with HC-05 BT module.
- It helps the user to control any electrical equipment wirelessly using their android smart phone.

## EDUCATION

### Bachelors in Electrical and Electronics Engineering

Vignan Institute of Technology and Management 2021 - 2024

### Diploma in Electrical Engineering

Uma Charan Pattnaik Engineering School 2018 - 2021

## INTERESTS

- Playing Harmonica
- Chess
- Traveling
- Playing Badminton