Shivani Anil Navale

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Career Objective

Dynamic Production Planning Engineer with a proven track record at Sejal Glasstech Pvt. Ltd., enhancing line utilization by 15% through strategic scheduling and real-time monitoring. Skilled in PLC programming, Lean manufacturing, and automation integration. Passionate about applying innovative industrial technologies and collaborative problem-solving to achieve sustainable operational excellence.

Technical Skills

Embedded Systems, Arduino Programming, Sensor Integration, PLC Control, Hardware Prototyping, Automated Quality Control Line, Industrial Automation, Conveyor Systems, Computer Vision (OpenCV), Line Follower AGV, Mechanical Design, PID Control, PCB Design, 3D Modeling, ROS (Robot Operating System), SolidWorks, AutoCAD, MATLAB, Python, C/C++, Arduino IDE, Lean Manufacturing, ERP, MS Excel, Production Scheduling.

Professional Experience

Production Planning Engineer – Sejal Glasstech Pvt. Ltd., Navi Mumbai, Maharashtra (Sep 2025 – Present)

- Coordinated production schedules, raw material planning, and manpower allocation to ensure on-time delivery and reduced downtime.
- Collaborated with design and maintenance teams to identify automation opportunities in manufacturing lines.
- Monitored daily production metrics and implemented process improvement measures using Lean and 5S principles.
- Assisted in the design and automation of glass handling and inspection processes, enhancing throughput and reducing manual error.
- Supported ERP-based cross-department communication to streamline production data tracking and reporting.
- Generated daily production and efficiency reports to assist management decision-making and process audits.
- Contributed to the development of preventive maintenance plans, improving equipment uptime by 10%.
- **Key Achievement:** Improved line utilization by **15%** through better scheduling and real-time monitoring.

Education

B.E. in Robotics and Automation — Jan 2025
D.Y. Patil College of Engineering, Akurdi — **GPA: 8.3**

Senior Secondary (CBSE) — Jan 2021
Reliance Foundation — 80%

Secondary School (CBSE) — Jan 2019
J.H. Ambani School — 82.2%

Academic Projects

- **Automated Pollution Control Robot:** Designed and developed a mobile robot using MQ-135 and DHT22 sensors for real-time air quality monitoring. Integrated PLC-based control logic with autonomous mobility for environmental data collection and filtration. *Technologies:* Arduino, PLC, Sensors, IoT.
- **Automated Quality Control Line:** Built a prototype inspection line for dimensional, crack, and weight analysis using ultrasonic sensors and load cells, improving inspection accuracy and reducing errors. *Technologies:* Ultrasonic Sensors, Load Cells, Python, MATLAB.
- **Line Follower AGV (Automated Guided Vehicle):** Developed a path-following AGV using infrared (IR) sensors for navigation and obstacle avoidance, implementing microcontroller-based control for reliable industrial operation. *Technologies:* IR Sensors, Arduino, PID Control.

Certifications

- PLC Fundamentals – Udemy

Positions of Responsibility & Hobbies

- Club Member, Student's Association of Robotics and Automation (SARA), 2023
- Hobbies: Badminton, Chess, Reading (Mythology, Sci-Fi), and Technical Blogging on Automation Trends