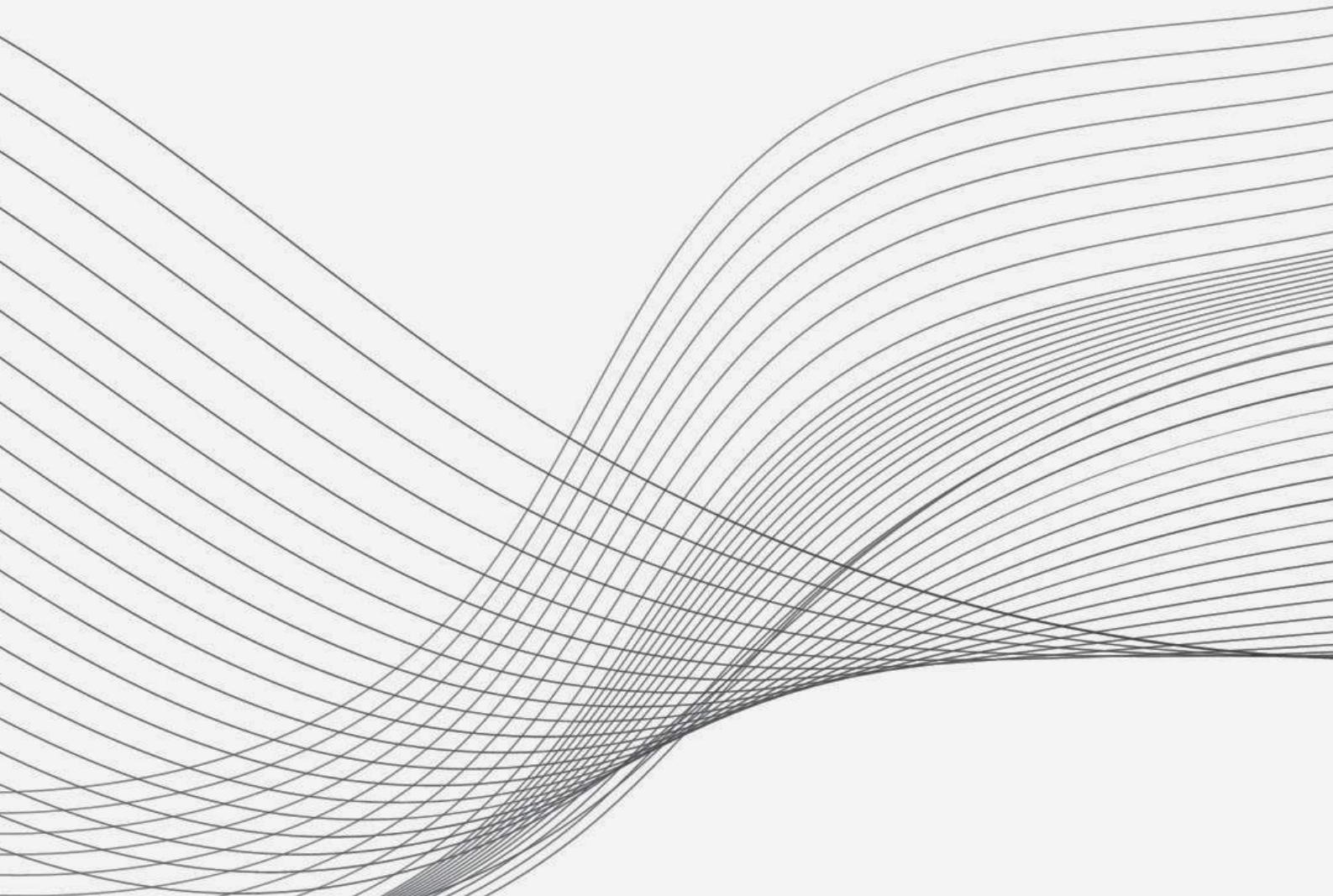




Manufacturing Productivity System



PROBLEM

Manufacturing setups are unable to exhibit high efficiency due to error tracing incapabilities

In a population-intensive country like India, dependency on labor is high. In current manufacturing routines, understanding the pain points of 50+ manufacturers in the MSME sector, they are unable to associate the existing inefficiencies and downtime for a particular reason, be it machine failure based or worker errors. There is a lack of a system which allows complete real-time monitoring of errors and worker traceability; this has been our aim with the software.

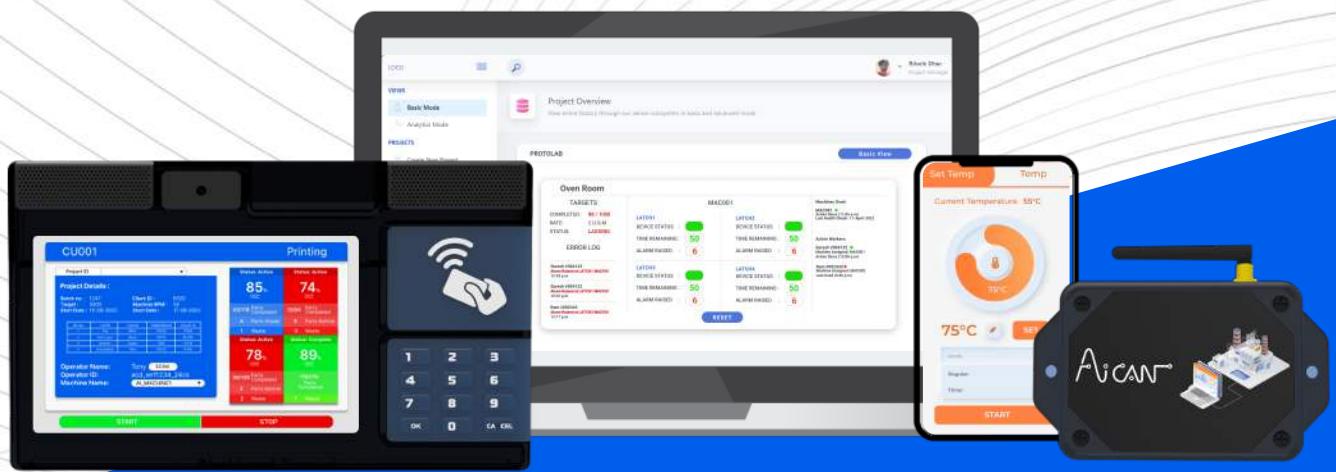
SOLUTION

Gain instantaneous shop floor visibility of machines and workers for immediate action and data-driven insights

From visualizing all production parameters in real-time for project managers to complete progress tracking for factory floor workers, we meet all the requirements to meet your production goals. Wireless sensor nodes backed with our floor worker dashboards allow absolute traceability of errors, machine downtime, batch cycle timings, worker efficiencies, maintenance routines, and much more!

AICAN

Manufacturing Productivity System



WIRELESS SENSOR NODES

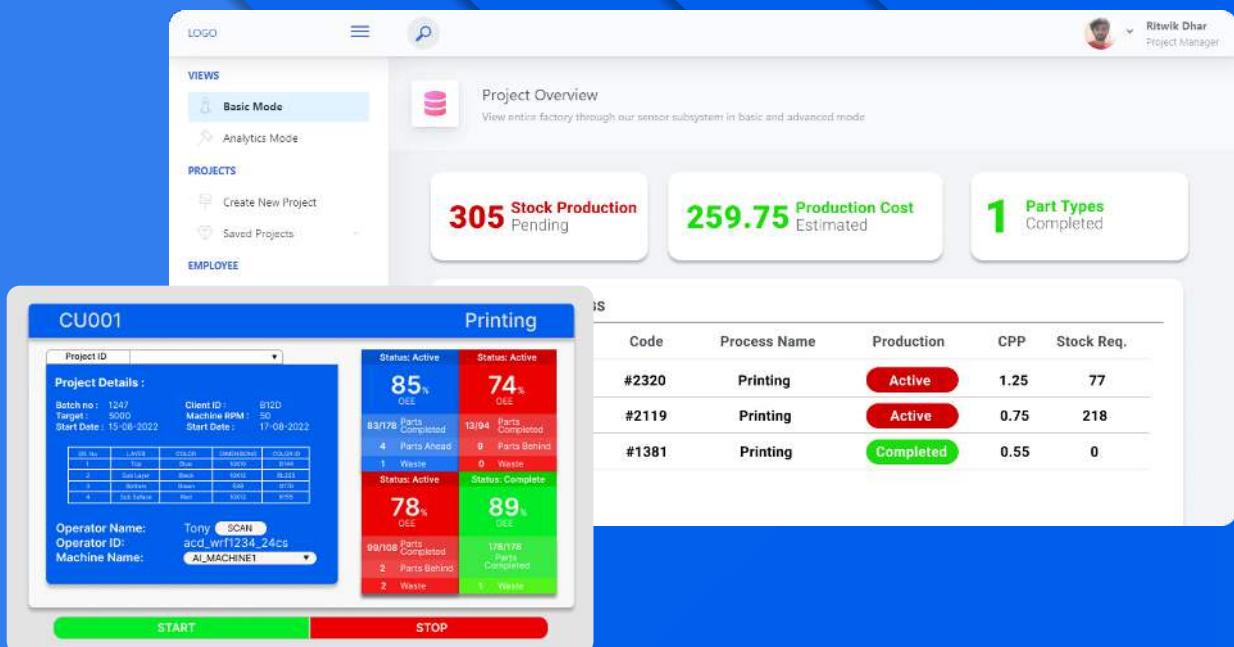
FLOOR WORKER DASHBOARD TABLETS

LOCAL/CLOUD DEPLOYABLE WEB APPLICATION SOFTWARE

ANDROID APPLICATION FOR MOBILE DEVICES

MANAGE PRODUCTION LIKE NEVER BEFORE

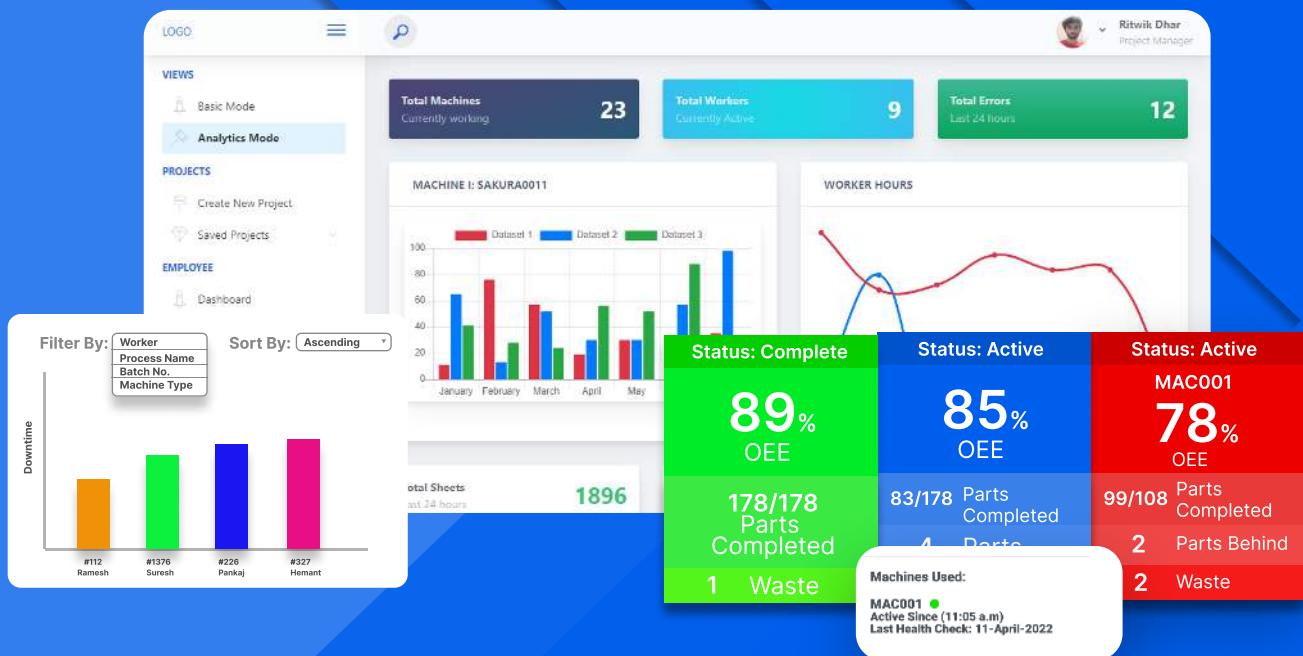
With complete production management, supervisor can **save on operational costs by up to 18% monthly** by analyzing tool life and inventory data



- Track production quantity in real-time to accomplish order requirements
- Digitize manufacturing orders on the go. Run and allocate client orders online to be updated on progress in real-time
- Systematize order parts, materials, and Bill of Materials (BOM) to keep inventory in check with ongoing production
- With compact visualizations at factory floor level, workers are empowered with real-time process data and simplistic analytics to meet production goals and maintain performance.
- Providing complete logging capabilities, workers performance is maintained with authentication-based interfaces to allow error traceability to managers. Worker can also start/stop processes, optimize pace as per real-time performance, attribute rejection to error brackets.

LANDING NEW CONTRACTS IS NOW FASTER AND SIMPLER

Custom reports and intelligent analytics which helps in increasing on-time order completion leading to higher client conversion rates by 12%



- Complete OEE performance analysis by measuring process/batch lead and lag times to optimize production goals. Lead and lag times help in analyzing machine quality for scheduling quick preventive and failure maintenance routines.
- With scalable wireless sensor nodes for all kinds of factory machines, every irregularity is logged and relayed to the user in real-time for quick decision making to accomplish productivity goals.
- Track downtime based on worker performance, batch profiles, machine anomalies to understand bottlenecks, and optimize process efficiency.

IMPROVE FLOOR WORKER SKILLS AND DELEGATE SMARTLY

Delegate and incentivize workers smartly with the help of worker analytics as per the performance, efficiency scores and error cycles

The screenshot displays a software interface for managing factory operations. On the left, a sidebar shows 'Last 30 Days' statistics: Units Produced (8897), Units Assigned (12000), Errors (217), and Efficiency (69.8%). Below this is an 'Efficiency Tracker' section with four categories: Printing (84%), Oven (88%), Heating (34%), and Packaging (81%). The main area is titled 'Project Overview' and 'Protolab'. It features a 'Basic View' tab. Under 'Oven Room', there's a table for 'MAC001' with columns for LATCH1, LATCH2, LATCH3, and LATCH4, each showing device status, time remaining (50), and alarm raised (6). A 'RESET' button is at the bottom. To the right, there's a 'Machinery Used' section with MAC001 details and an 'Active Workers' section listing Suresh #004122 and Ram #002342. A blue callout box highlights an 'Error at SAK001' at 11:04 a.m. Another callout box highlights an 'Error at MACD100' at 14:20 a.m. and 14:23 a.m.

- Project managers can use the worker analytics for optimized worker delegation based on worker efficiency tracker, which can be viewed by process, batch number, weekly, and monthly profiles. These analytics can be used by workers and managers to accelerate decision making and improve worker performance.
- Complete error traceability from source of fault up to the worker assigned with UI-friendly designators for quick annotation
- Supervise factory floor worker performance by job, batch numbers, machine unit, as well as periodic indicators like hours, weeks, months, and years

FIND GAPS IN PRODUCTION AND RUN MACHINES LONGER

View micro stops, cycle times and idle production periods to understand downtime routines and take data-driven actions to reduce machine wear

The screenshot displays a software interface for managing machine operations. On the left, a sidebar includes 'LOGO' at the top, followed by 'VIEWS' with 'Basic Mode' selected (highlighted in blue) and 'Analytics Mode'. Under 'PROJECTS', there are 'Create New Project' and 'Saved Projects'. Under 'EMPLOYEE', there is a 'Dashboard'. The main content area features a 'Project Overview' card with three status indicators: '1 Predictive Check Pending' (red), '3 Maintenance Checks Complete' (green), and '1 Preventive Alert Detected' (red). Below this is a 'MAINTAINENCE LOGS' table:

| Sr No. | Machine Name | Process Name | Type | Service Date |
|--------|----------------|--------------|------------|--------------|
| 1 | SAKURAI MAC001 | Printing | Preventive | 22-11-2022 |
| 2 | MTM PCC221 | Peeling | Predictive | 19-09-2022 |
| 3 | SAKURAI MAC071 | Printing | Preventive | 22-11-2022 |

Below the logs is a 'MACHINE DATA' section containing a line graph. The graph shows performance metrics over time, with the Y-axis ranging from 63 to 68 and the X-axis showing dates from 14/03/25 to 14/03/26. The graph includes controls for 'Machine' (set to MAC001), 'Date Range' (set to 14:00 - 14:05), and 'Limit' (set to 68). Buttons at the bottom of the graph area are 'Reset to Default View' and 'Analyze'.

- Generate maintenance alerts based on periodic timings, and conditional performance thresholds
- Monitor status and manage health of machine units through historical machine data analysis

MAKE YOUR FACTORY SMART IN THREE EASY STEPS

1

Schedule a quick consultation session with our team

2

Our specialists at AICAN will sit with you to understand your manufacturing routines and suggest infrastructure for optimizing your production goals

3

Addition of modular sensor nodes with factory floor machines and control units for worker analytics

AICAN is ready for deployment!

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