

RobatoSystems

Inc.

Next
Generation
Industry 4.0
Automation
Solutions



www.robatosystems.com





Who we are?

Advanced Technology
driven and Automation
Solution Providers

Robato Systems Pvt. Ltd. is a leading automation company operating successfully in the automation world since 2019 has proven to be trustworthy and reliable solutions and services provider to its clients across the world.

We are providing automation solution in the domains like Industrial automations, Parking management systems, Weighment automation, ESD access system, Smart city solutions and Secure access control systems for industrial and commercial use.

Robato Systems has a team of expert developers, software engineers, product architects and efficient project managers to deliver quality solutions to its customers. Our professional ethics, global market experience and focus on quality are the main components that help us to build intuitive, reliable and economical products.

Our Vision

Robato Systems is completely involved in providing total automation solutions globally. We are committed to:

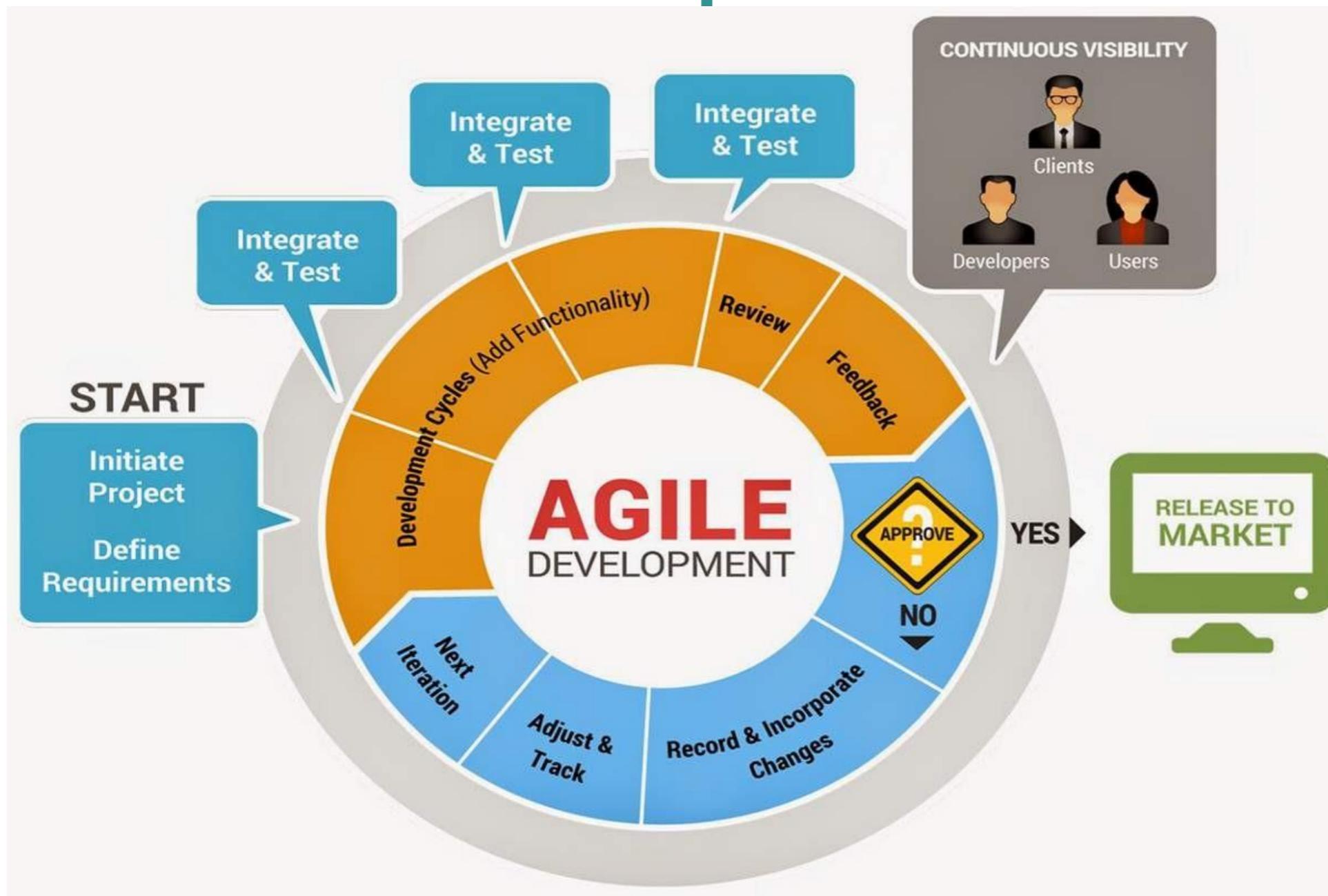
- Providing quality, comprehensive and innovative automation solutions coupled with technology expertise for our commercial and industrial customers;
- Delivering innovation to help our customers in improving their business efficiency, optimizing their energy usage, reducing their operating costs and ultimately, increasing their profitability;
- To be the market leader in the design, distribution and implementation of industrial and commercial automation solutions by developing innovative marketing, engineering and customer service strategies to meet our individual customer's changing needs.



Our Mission

We will be an ultimate automation solution provider with a reputation for expertise, quality, and cost effective in the world of automation by maintaining a lean and flexible organization, engaging quality assurance in pursuit of service excellence, focusing on profitability and return on investments over growth, adding effective project management processes, developing strong management teams and support systems and creating sound relations with our customers and partners for dual betterment and growth.





Our Work Process

Industry 4.0 Automation
Solutions

Visitor Management Solution

Waste Management
Automation

Parking Management
Solutions

ESD Access control
Solutions

OUR Business Vertices

LoRa/ LoRaWAN Industrial IoT
Products

Machine Vision Solutions

Industrial Weighment
Solutions

Agile Software Development
Solutions

Robato Systems

Industry 4.0 is revolutionizing the way companies manufacture, improve and distribute their products. Cloud computing, analytics, AI and machine learning into their production facilities and throughout their operations.



Industry 4.0 Automation Solutions

Production Monitoring Solution

PMLogix

Track target v/s planned real time production

- Sensor based production counting
- PLC integrated production counting
- CNC machine production counting
- Vision based production counting
- Manual computing interface inputs
- Smart industrial LED Displays



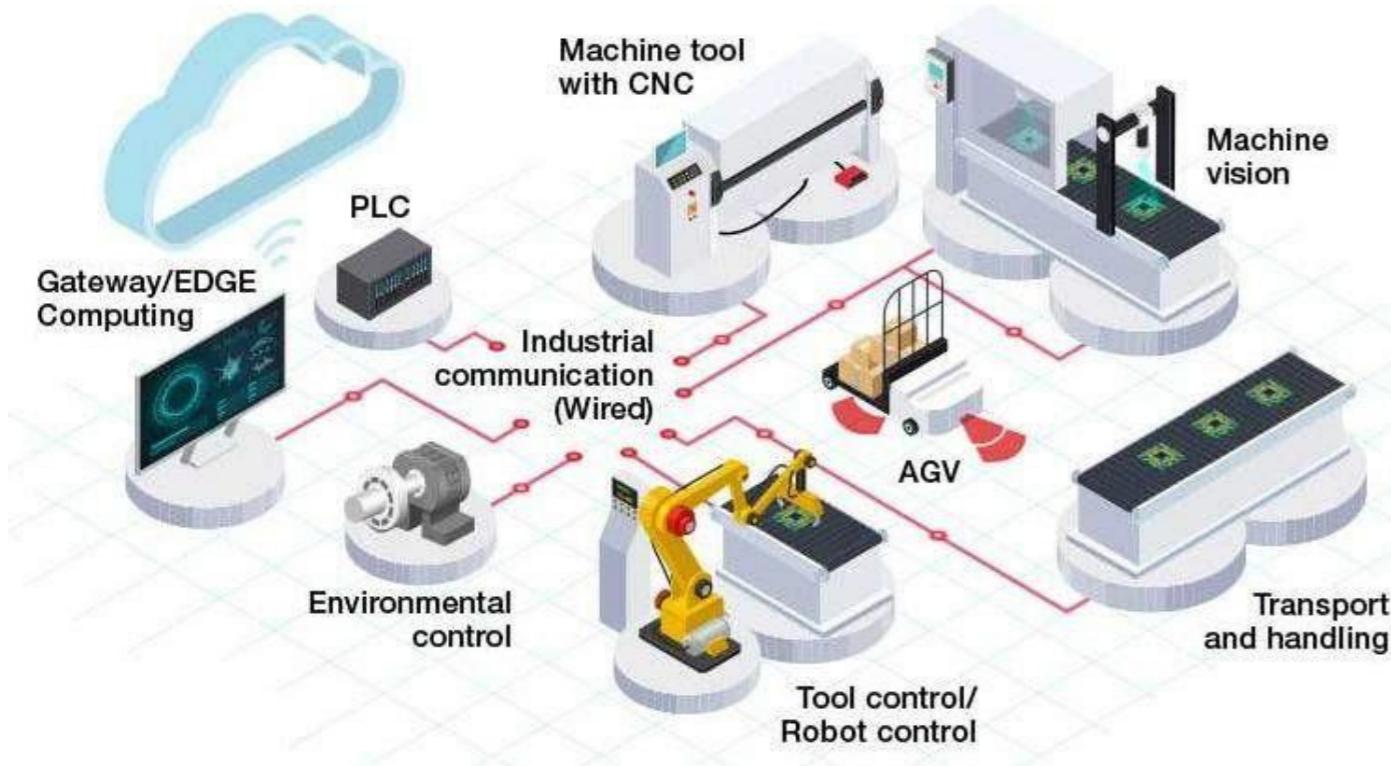
Smart Andon System

AndonLogix

Empower your Production Floor with real time data to make smarter and faster decisions

- Smart wired/wireless Andon tower
- Software suite: On-Cloud, On-Prem, Mobile App
- Downtime notifications: Mobile App, Dashboard, Smart screen
- Fully automatic cloud based monitoring system
- Third party software integrations





Predictive Maintenance Solution PMLogix

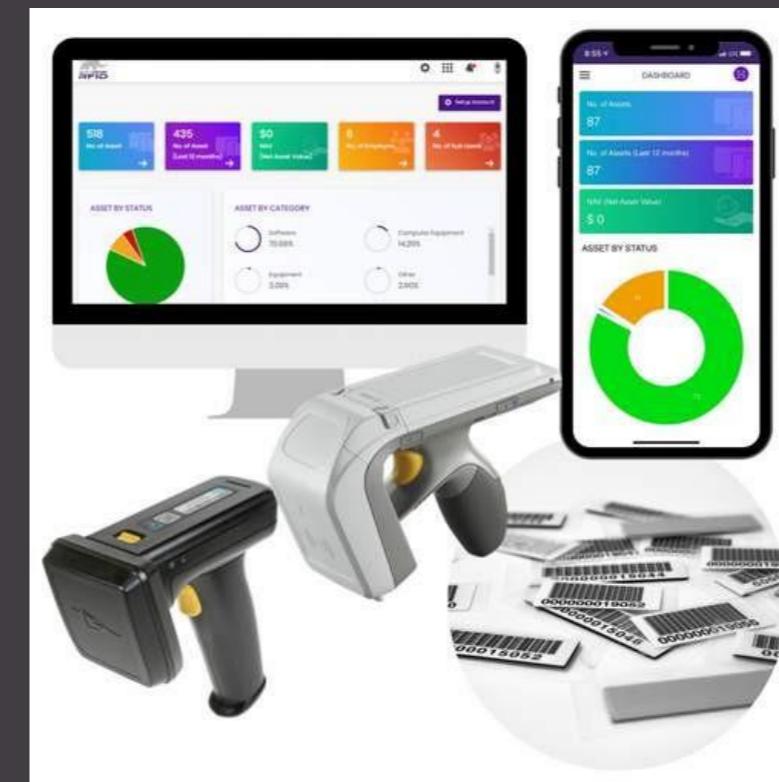
To reduce the unplanned downtime
on your production floor

- Monitor Machine temperature, vibration, speed, and running hours
- Maintain machines service track record
- Increase the efficiency of your plants
- Automatic system alerts and notifications
- User Friendly Dashboard
- Early detection of damage, avoidance of downtimes

Smart Asset Tracking Solution AssetLogix

To track assets inside the factory premises: trolleys, containers, buckets etc.

- RFID based asset tracking
- NFC based asset tracking
- QR code based asset tracking
- Software suite: On-cloud, On-Prem, Mobile App
- Notifications: Dashboard, Mobile App, email



Smart Inventory Management Solution- InventoryTracker

To track raw material, final goods, outward material and material availability.

- RFID/ NFC/ QR code based Inventory tracker
- Inward material stock tracking along with age
- Product location tracking
- Real time inventory availability
- Visibility for production planning
- Spares tracking
- Software suite: On-cloud, On-Prem, Mobile App

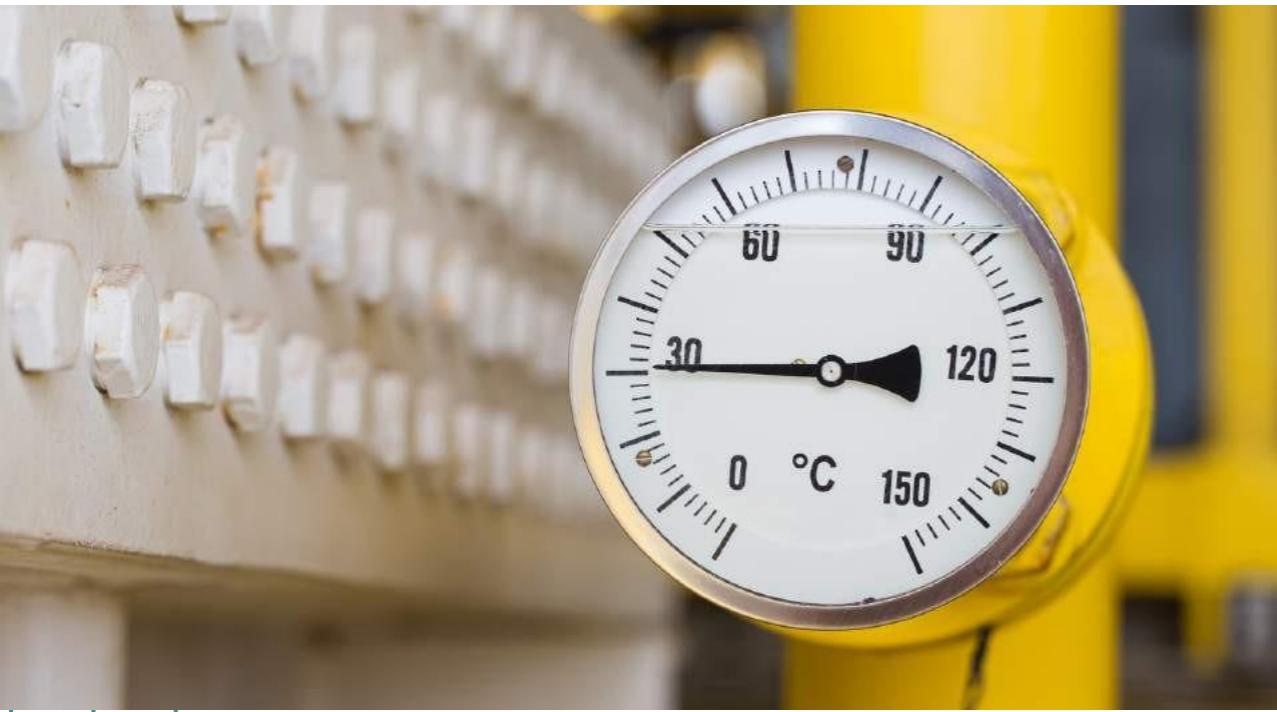
Inventory Management System



Process Automation Solution

Automation for better production using least manpower.

- Assembly line automation
- Conveyer belt automation
- Product inspection automation
- Product counting automation
- Product weightment automation
- Software suite-On-Cloud, On-Prem, Mobile App



Temperature Monitoring System

A smart platform to monitor and analyze the temperature conditions of manufacturing area.

- Machine temperature monitoring
- Motor temperature monitoring
- Climate control check
- Production line temperature monitoring

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Our solutions are embedded with Radio frequency modulation technology for low power and wide area networks.



**LoRa/
LoRaWAN
Industrial IoT
Products**

Analog Digital Wireless I/O

Customized Solution for Varied requirements of OEMs

- Digital/analog signal transmitter
- 24VDC, 0-10VDC, 4-20mA Signals
- One to one communication
- One to many communication
- Avoid caballing problems
- Low cost long communication



Production Counting Sensor

For all cumulative Counting Applications

- Equipment on/off status count (switch relay sensor)
- Length measurement using rotational pulses
- Object counting applications
- Energy (kwh) monitoring using flow meters
- Communication range (50 to 100 m)





Transparent Wireless Bridge

A wireless bridge in place of Ethernet cable

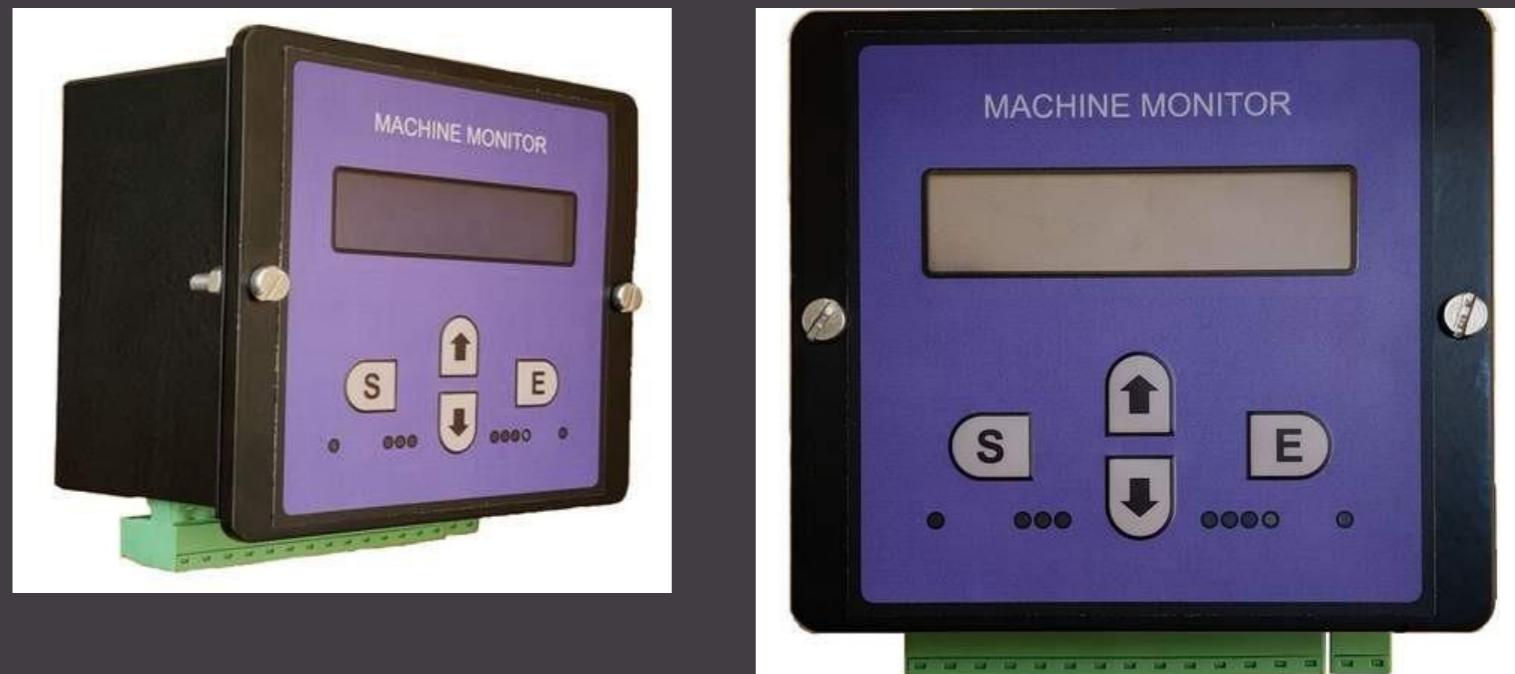
- Eliminate Ethernet cable
- Support ProfiNet, MODBUS-TCP, Power-Link
- Automated guided vehicle, Moving applications
- Layer 2 based transparency
- Plug and Play, no set-up required
- Point to point and Mesh networking



Advanced Machine Monitoring

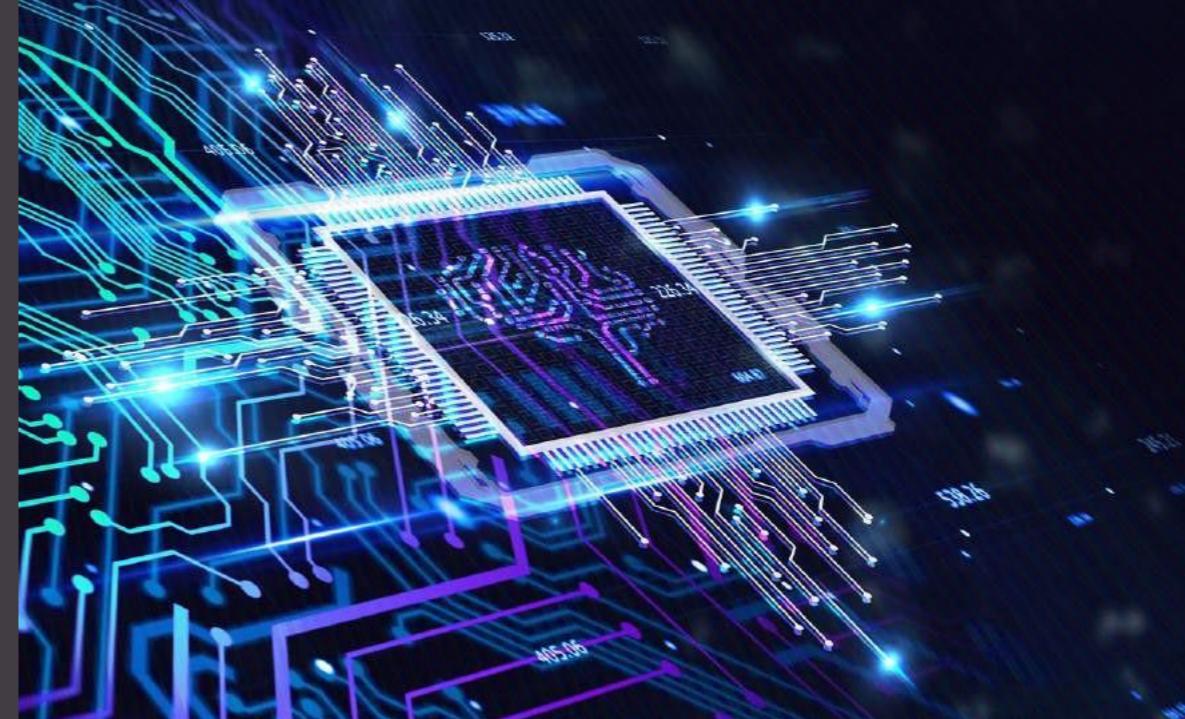
Establish digital system to maintain transparency, high quality, high productivity and on-time deliveries

- Keep an eye on what's going on production floor
- Real time monitoring of productivity, efficiency and quality
- Actual run time v/s total time
- Warp faults, weft stoppages and all delays
- Local display and keypad



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Machine vision is a technology that utilizes sensors, industrial cameras, I/O control hardware and vision software algorithms to extract information from captured images, providing imaging-based inspection analysis and visual guidance for production line operations.

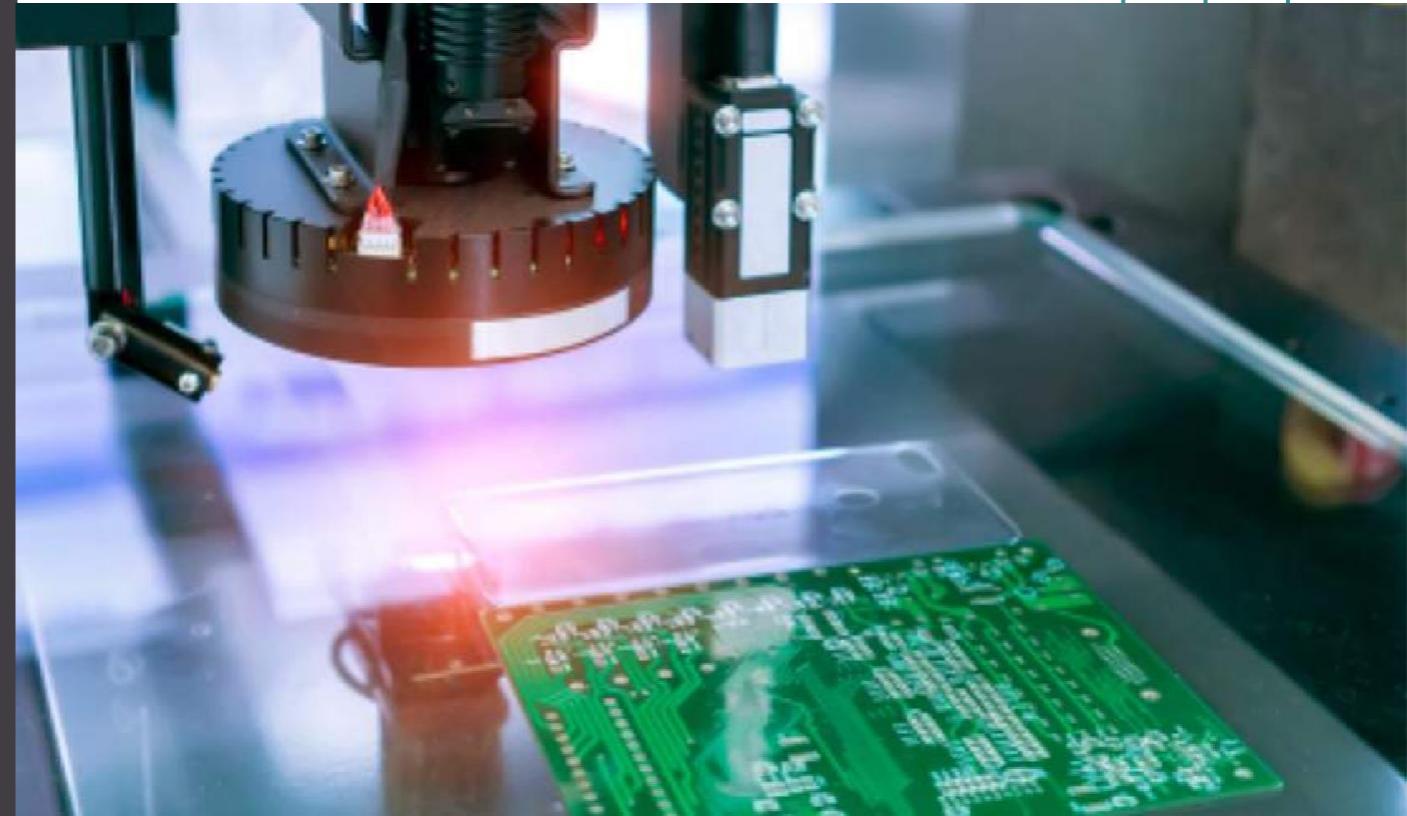


Machine
vision
Solutions

Product Counting Solutions

Machine vision based parts counting solution using machine learning for

- Bulk parts counting
- Product label counting
- Color based identification and counting
- Nut-Bolt counting
- 30mm to large size products
- On-demand customized solution

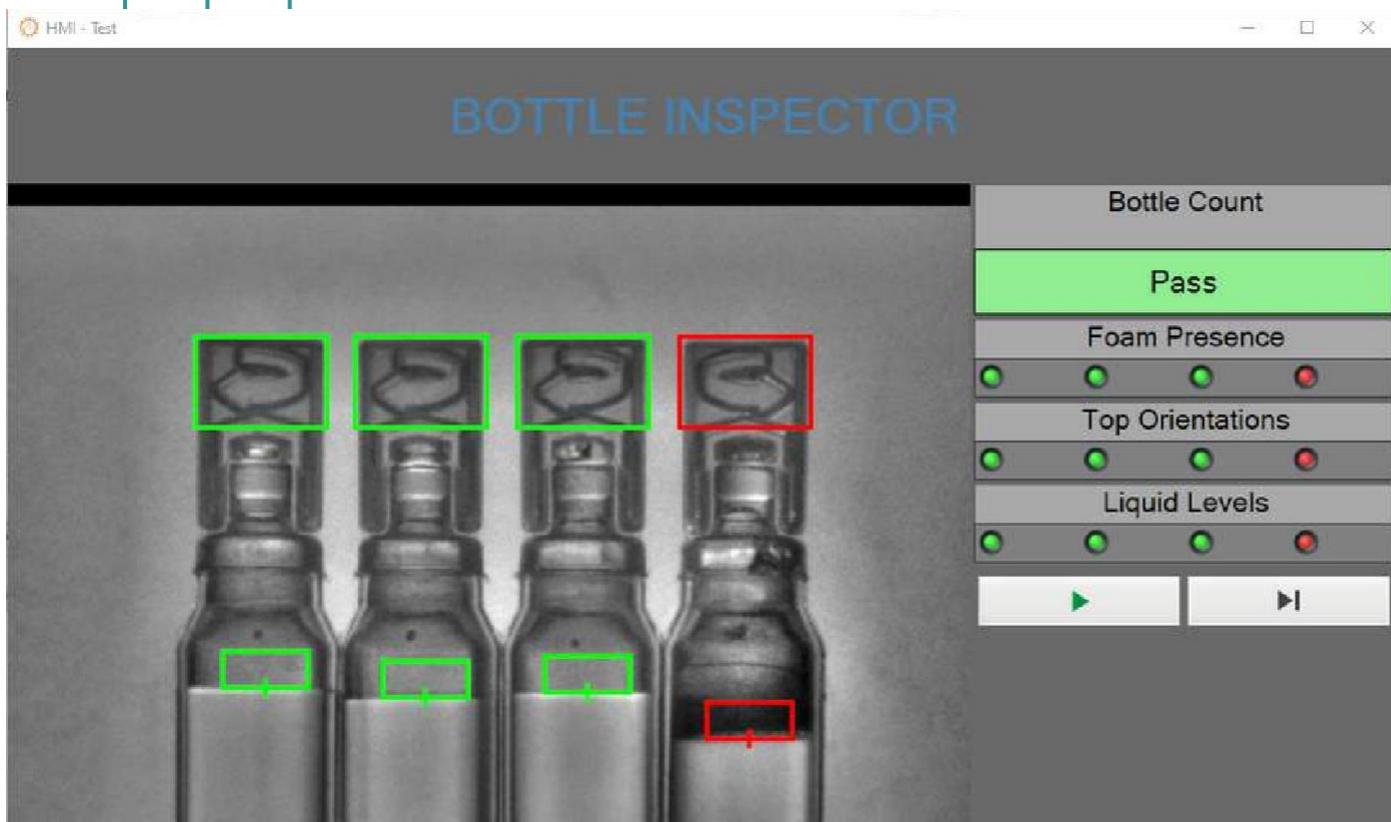


Product Dimensional Measurement

Machine vision based solution using machine learning for measuring Length, breath and height of the products

- Product diameter monitoring
- Defect length measurement
- Nuts length and diameter tracking
- Wire/textile length measurement
- On-demand customized machine
- Product 2D/3D dimension inspection





Product Defect Inspection

Machine learning based solution for automatic product defects identification, sorting with data analytical reports for

- Label inspection system
- PCB inspection system
- Closure inspection system
- Cap & Fill level inspection
- Thread inspection system
- Gear inspection system
- Blister inspection system



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Automatic Vehicle recognition and weighment.
RFID based vehicle recognition
ANPR vehicle recognition
Volumetric weigh measurement
Software Suite: Dashboard, Notification, Analytics, Reports
ERP/SAP/ 3rd party software integration
Mining vehicles, Coal site vehicles, Garbage waste collection vehicles, Industrial product weighment



Industrial Weighment Solutions

Unmanned Weighbridge Automation

Automatic Vehicle recognition and weighment

- RFID based vehicle recognition
- ANPR vehicle recognition
- Volumetric weigh measurement
- Software Suite: Dashboard, Notification, Analytics, Reports
- ERP/SAP/ 3rd party software integration
- Mining vehicles, Coal site vehicles, Garbage waste collection vehicles, Industrial product weighment



Container weighment Automation

Automatic container weighment and report management.

- In-air container weighment
- One power container scale
- Wireless IoT Devices
- Verification gross mass measurement
- Seamless operations
- No interruptions on workflow
- Real-time access to information, reports and operations monitoring



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Fully automatic software control ESD turnstile access control system to solve all the risks involved on EPA from ESD charged human bodies.

Admin controlled software to register different types of users: Direct staff, indirect staff and visitors.

Applicable access policy: ESD test on every entry, one ESD test per day and so on.



ESD Access control Solutions



We provide ESD
Access control gates:

- ESD P-Type Gate
- ESD Tripod Gate
- ESD Flap Barrier Gate
- ESD Combo Tester



**Robato
Systems**



Automatic Software Controlled ESD

Fully automatic software control ESD turnstile access control system to solve all the risks involved on EPA from ESD charged human bodies.

Admin controlled software to register different types of users: Direct staff, indirect staff and visitors.

Applicable access policy: ESD test on every entry, one ESD test per day and so on.



Our solution includes:

- Integrated ESD Turnstile Access Control System- Single ESD combo tester and ESD foot plate integrated on turnstile/ flap barrier along with proximity card reader.
- Distributed ESD Turnstile Access Control System- Multiple ESD combo testers and proximity card readers can be integrated with ESD turnstile/ flap barrier/ ESD gate.
- Fully automatic system to restricted entries
- Access gates for bi-directional entry with IR sensors
- ESD result logs for auditing
- Desktop software to generate reports
- Microsoft SQL server as a server database
- Bulk mode user registration mode
- ESD access controller equipped with LED's
- Anti-pinch function with UPS



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A parking management system refers to the innovative technologies providing solutions in the parking industry. It's a system that helps people, companies, and organizations to manage their parking spaces.



Parking Management Solutions

ANPR Parking Management

Vehicle recognition on the basis of standard number plates of specific countries

- Proprietary machine learning
- Text conversion algorithms
- Edge computing device
- Work with all nation number plates
- Climate resistant



RFID based Automatic Parking

An automatic parking system embedded with RFID technology to help quick and secure movement of vehicles in parking areas.

Automatic parking system for gated communities, corporate office buildings, shopping complexes, residential apartments, hospitals and academic institutions.

Integrated RFID tags, RFID readers and automatic boom barriers





Sensor Based Parking Management

Solution to utilize the parking space up to maximum level without manual force.

Parking bay sensor to determine the real time presence of vehicle at specific slot and counting & indication of the empty slot.

Highly user-friendly automatic remote controlled parking solution to increase the revenue from parking management industry.

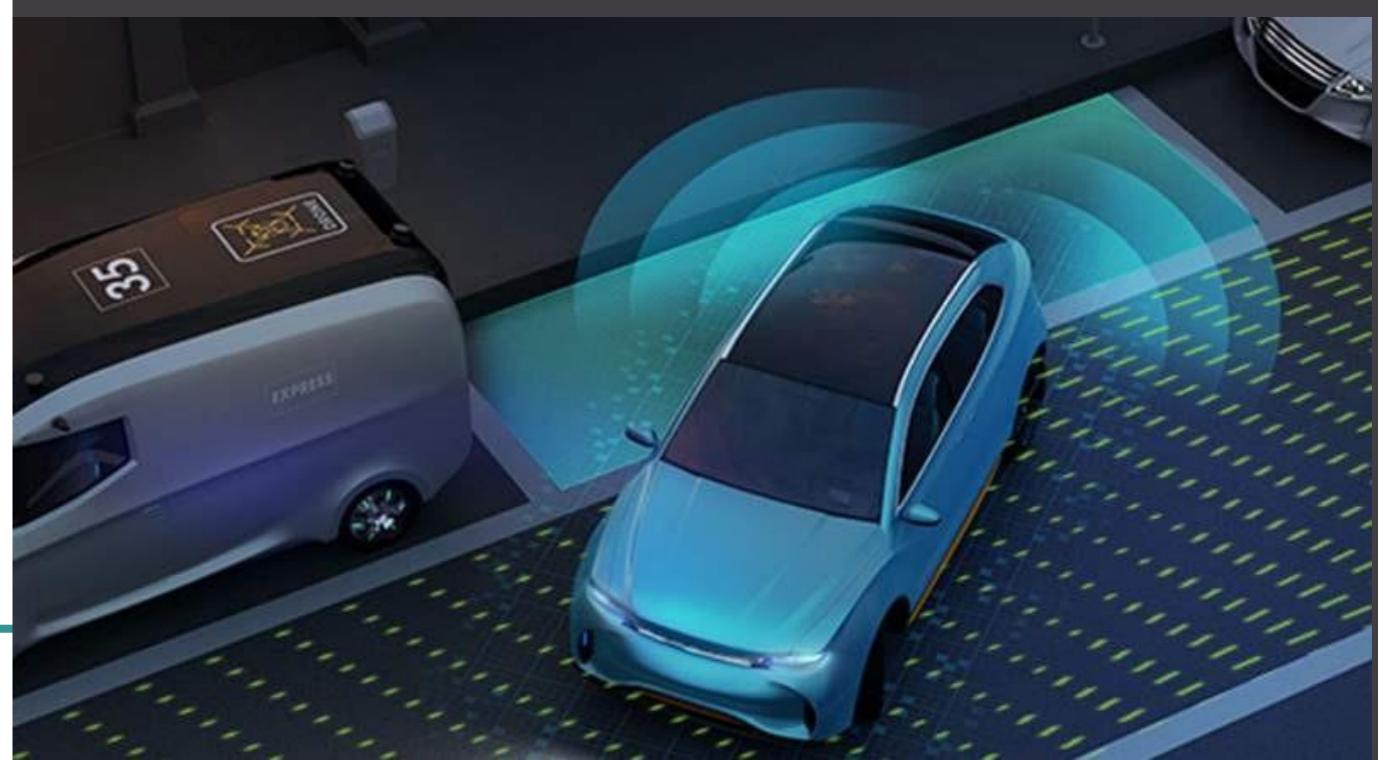


Parking Guidance System- ParkLogix

An intelligent parking solution to maximize motorist experience, utilize parking spaces up to maximum level without manual interference

Our solution includes:

- Parking indicators
- Indoor/outdoor displays
- Parking controller
- Parking signage
- Boom barrier
- ANPR camera



Shared Parking Solution

A complete solution for management of parking of multiple offices

- RFID based vehicle recognition
- Automatic number plate recognition
- Automatic parking lot management
- User friendly LED displays
- Software suite for admin



Digital LED Display Boards

Digital guidance of parking for both on-street and off-street car park locations

- Customizable designs
- Highly visible LEDs with adjustable intensity
- Suitable for indoor/ outdoor environment
- Real time information on availability status of parking
- Low power consumption





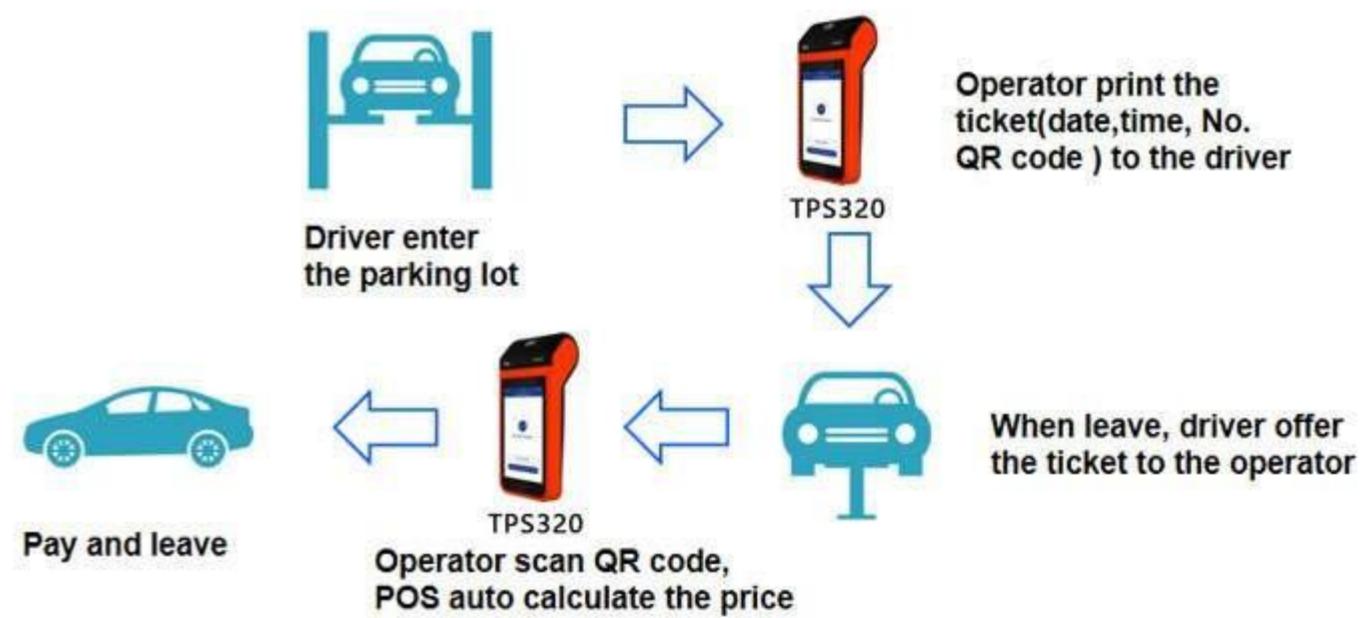
POS Device Parking Tickets

Handheld ticket machines mostly used in parking facilities for the payment collection, to maintain huge parking premises with limited manpower.

- POS terminal and SaaS platform to summarize all parking data as an operator wise report, vehicle wise report, total collection reports and unbilled reports.
- 4G sim/ WiFi enabled POS machine connected with Robato's SAAS platform wirelessly

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Handheld Parking POS Process



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The waste management solution includes smart sensors that use ultrasound technology to measure the fill levels in bins and containers. They send the data to the Smart Waste Management System, a powerful cloud-based platform, via several IoT communication protocols



Waste Management Automation Solutions **R Cube**



Smart Trash Bin Tags

To retrieve information about the bin from database in Smart Waste Management System (identification number, owner information, correct bin location, collection schedule) using the reader.

- Visible numerical / bar / QR code for bin identification
- Reliable service verification via RFID features (UHF)
- Durable material
- Easy access to information for public



Waste Monitoring Smart Sensors

To monitor the level of waste collected, weight collected and alert the stakeholders if full or empty

Bin fill level notifications

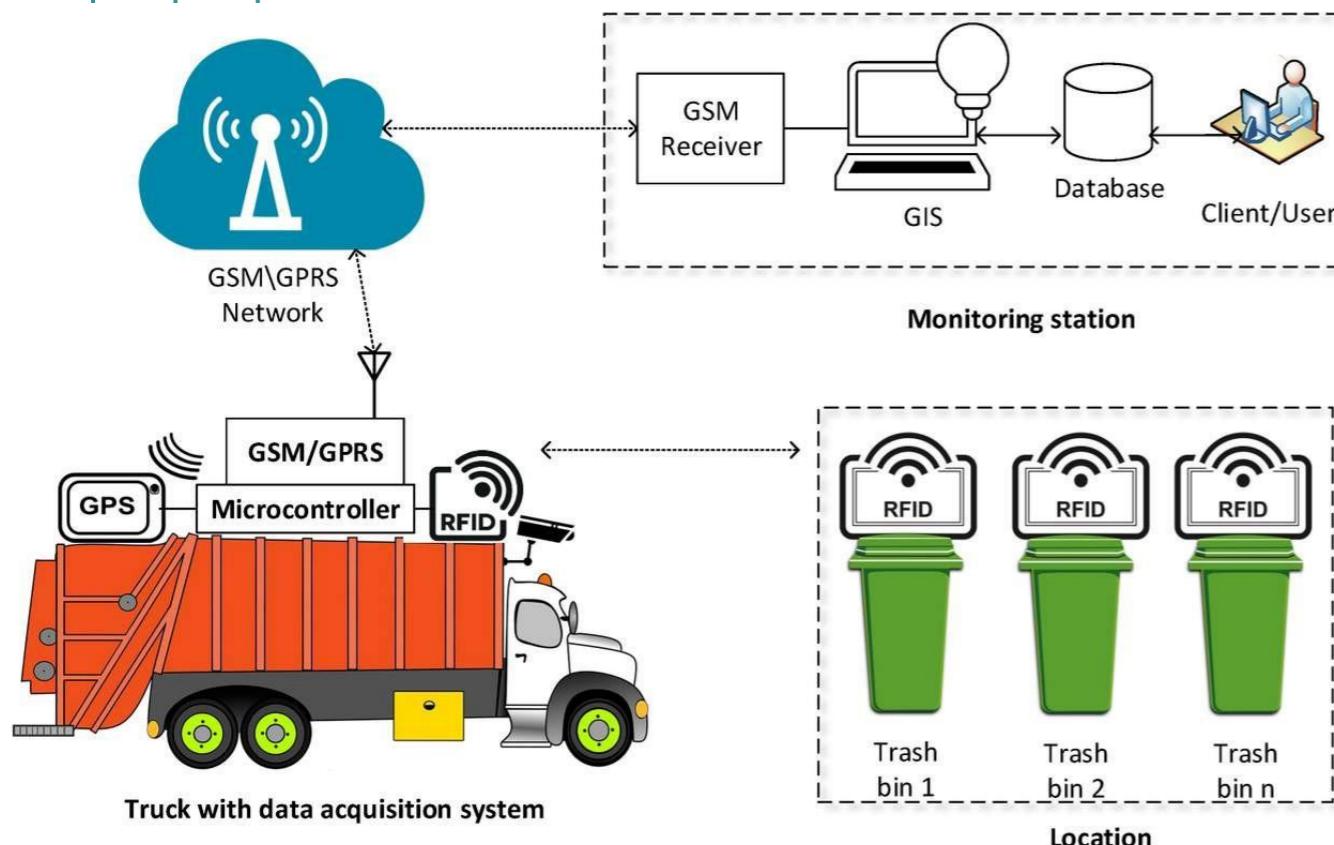
Bin garbage weight notifications

Route Planning for waste collection

Manage and understand your waste

Improve health, safety and well-being.





RFID based Trash Bin Tracking

Visible numerical / bar / QR code for bin identification

Reliable service verification via RFID features (UHF)

Durable material

Firm and secure placing with rivets

Personal data protection via user login (mobile app)

Easy access to information for public

Door 2 Door Garbage Collection

GPS technology and connected devices, sensors, RFID Tags have been deployed to make door-to-door garbage collection service more efficient.

- Realtime waste collected information
- Notification of waster collected to property owner
- Unique RFID tags for every property
- Short range handheld reader to scan RFID tags
- Vehicle mounted long range reader to scan RFID tags
- Powerful insights of waste collected



Vehicle Tracking Solution

Tracking management software for fleet owners to reduce risks and costs related to vehicle management and telematics

- Improve your operational efficiency by real-time tracking
- Fleet Management and powerful insights
- Vehicle Route Management
- Geofencing and movement notifications



Automatic Weight Capturing Solution

A stand-alone system which allows 24 x 7 weighing operations without the need of an operator. To manage and track the critical information created at the time of weighing and label products in an easy and flexible manner.

- Automatic Vehicle recognition
- Automatic weighment of vehicle
- Live details of Weighment Cycle
- Capture Weight at any point
- Real-time Reporting Dashboard



Robato Systems

Visitor Management is a solution to manage visitors' arrival and ensuring they have a great experience when they are at your building. Visitor Management usually involves a multitude of processes that keep visitors and employees safe, secure and in the correct place.



Visitor Management Solution

Key Features of Visitor Management System

- Pre – Appointment
- Check-In & Check-Out of visitors through OTP Verification
- Allow/Deny Permission by Host
- Alert for Overstay
- Identification Details Capture
- Re-visit for visitors
- Customization
- Visitor Reports & Data Analysis



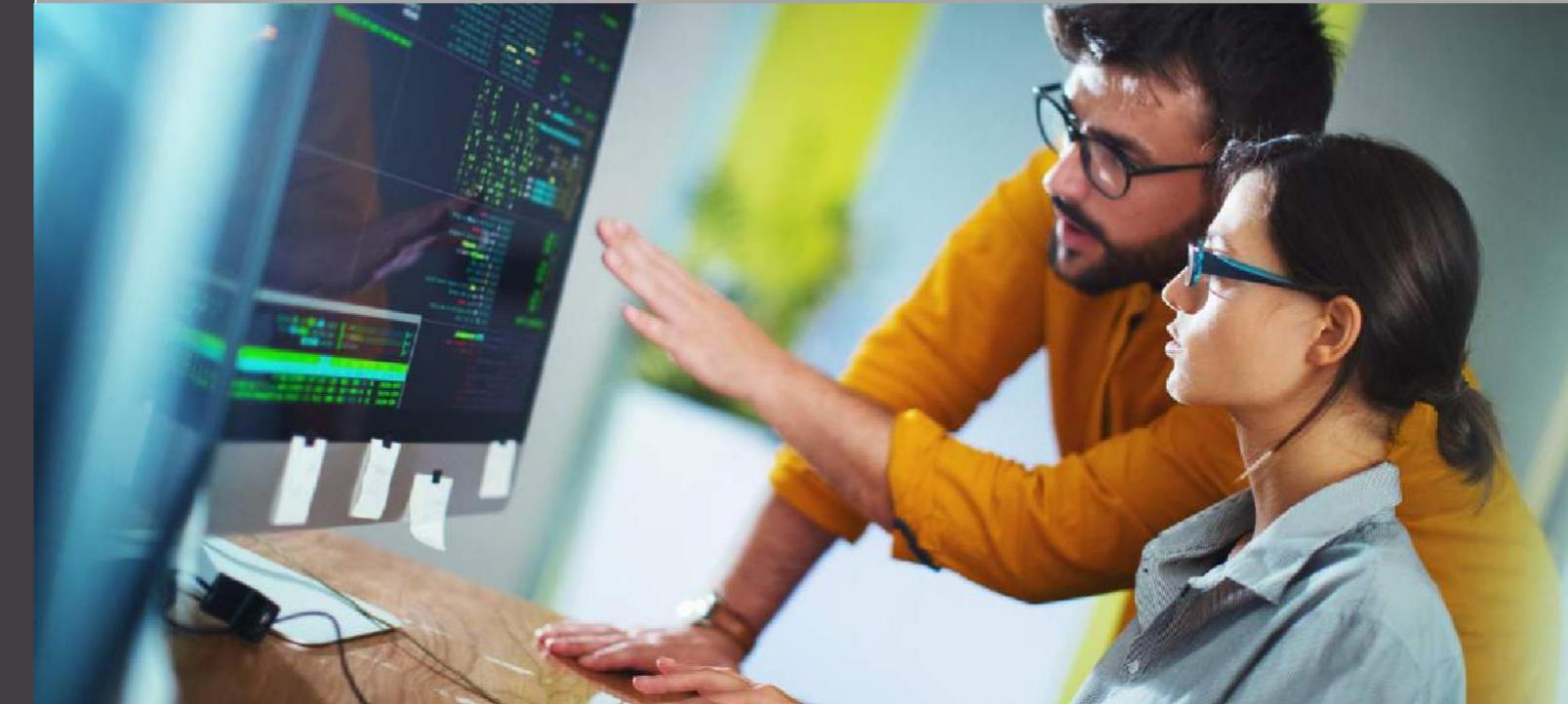
Key Features of Visitor Management Web Portal

- Visitor Access Management
- Generate Visitor QR Pass
- Download Visitor QR Pass
- Visitor History Reports
- QRcode Access Control Management
- Secure Login
- User Management



Robato Systems

Software development services is a complicated process to design an application or software in order to meet a particular business or personal objective, goal or process. This process consists of various stages: Planning, Analysis, Product Design, Development & Implementation, Testing, Maintenance.



**Agile
Software
Development
Solutions**

Mobile Application Development

Robato Systems Mobile application development solutions provide clickable prototypes and ready to deploy software applications for any platform.

iOS App development
Android App development
Hybrid App development
UI/ UX Design

Technologies used to develop Mobile Applications
ReactNative, Flutter, Android, iOS,
SQL, MySQL, MongoDB, AWS, etc.



Web Application Development

Our web application development and programming services include everything from a simple content to complex websites:

Web Applications Development Service offering:

Custom software development
Web content management system
E-commerce portal
Social networking development
Custom ERP development

Technologies used to develop Mobile Applications



Robato Systems

Our Few Clients

FORTUNE
500

Robato Systems

ebmpapst



reLIANCE
THALES

LANCO



GSEC®

adani™

DENSO

Honeywell

BARCO

PHOTONPLAY
— SYSTEMS —

SHOUSYS



Robato Systems



ThermoFisher
SCIENTIFIC



Robato Systems

Technology Partners



Microsoft

ORACLE®

Why US

- ✓ Customized Solutions
- ✓ 100% Customer Satisfaction
- ✓ Delivery Excellence
- ✓ Professional Work Ethic
- ✓ World Class Quality
- ✓ Proactive After Sales Support
- ✓ Sustainable Innovation

RobatoSystems

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