



**REAL TECH
SYSTEMS**
Innovation in Electronics

Real Tech Systems is a comprehensive solution and service provider, specializing in embedded systems, software engineering, PCB design, and holistic product development.

Our expertise extends across the entire spectrum of product development, from initial research and development stages to the mass production of electronics-based products. We leverage state-of-the-art technologies to ensure the delivery of high-quality manufacturing and development services in both software and App domains.

Established in 2004, Real Tech Systems is dedicated to providing advanced technical engineering solutions.



PRODUCT & SERVICE

- **Auto Bells** - Automatic Bell Ringer Timer
- **iTank & sTank** - IoT Smart Water Management System
- **IQUA** - Water Quality Parameters Monitoring System
- **i-Face** - Smart Face Recognition Attendance App
- **GPS** - Smart Truck Security and Tracking System
- **AWS** - Automatic Weighing Systems
- **Rimza** - WiFi Automatic School Bell is an IoT-enabled system
- **isafe** - Home Security System
- **Lift and Escalator** - SMS Fault alert system
- Subway Water Level Indicator IoT Automation
- **OEM** - Original Equipment Manufacturer

The Automatic School Bell Ringing System automates bell operations with precise, scheduled ringing. It enhances efficiency, reduces human error, and eliminates manual intervention. Easily programmable with multiple time slots for schools, colleges, and institutions. Flexible and customizable, it integrates seamlessly with existing infrastructure.

MICRO



- 🔔 Connect upto 4 ringers
- 🔔 25 Bell timings per day
- 🔔 Exam mode / Regular mode
- 🔔 Manual ringing switch
- 🔔 Fuse protection for short circuit

SMART



- 🔔 Connect upto 8 ringers
- 🔔 50 bells timings per day
- 🔔 Exam mode / Regular mode
- 🔔 Holiday programmable
- 🔔 Easy programmable via Android
- 🔔 Fuse protection for short circuit

MUSIC



- 🔔 Auto song voice play
- 🔔 Auto amplifier on/off
- 🔔 Exam / Regular mode
- 🔔 Easy Programmable Via Android
- 🔔 Fuse protection for short circuit

SMART FACE RECOGNITION ATTENDANCE APP



- **Advanced Attendance Management:** Simplifies and automates employee attendance and personal detail tracking.
- **Real-Time Tracking:** Enables instant attendance monitoring with location based logins.
- **Customizable & Scalable:** Supports unlimited employee management with customizable options.
- **Enhanced Workplace Efficiency:** Provides a comprehensive workforce overview at your fingertips.

IoT - ENABLED WIFI SMART SCHOOL BELL



- **RIMZA is an advanced IoT-enabled solution designed to automate bell schedules in schools, colleges, government offices, and similar institutions.**
- Remote Access via IoT – control anytime, anywhere
- Voice Recording & Playback any location
- Exam & Regular Modes flexible scheduling
- Holiday Programming for automatic skip days
- Android/iOS App easy setup and control
- Automated Amplifier Control
- Built-in Speakers – includes two integrated units

SMART WATER MANAGEMENT SYSTEM

Internet of Things

iTank is a modular, IoT-integrated solution for automating and monitoring water levels across large-scale areas. It supports both wired and wireless connectivity, ideal for widely spaced tanks. With wireless coverage of up to 5 km, it efficiently connects tanks and pumping stations. Capable of monitoring 50+ tanks, iTank overcomes the limitations of traditional systems.

IoT Device



- Central control and monitoring unit.
- Capabilities: Receives and displays sensor data (e.g., tank levels).
- Communicates with the Smart Motor Controller (SMC).
- Controls borewell/sump motors via SMC based on tank levels.
- GSM module enables remote monitoring and control via mobile communication.



Linear Level Sensor

- Function: Accurately measures water level in tanks.
- Technology: Pressure-based sensing.
- Connection: Integrated with the main controller device for real-time water level tracking.

Motorized Valves



- Installation: At Outlet and Inlet pipes.
- Outlet Valves: Automatically open at preset times scheduled water delivery.
- Inlet Valves: Used when a single borewell supplies water to multiple tanks.
- Ensures precise flow direction and timing.



Flow Meter

- Function: Measures water flow through pipelines.
- Output: Digital signals corresponding to the flow rate volume.
- Use: Enables monitoring and regulation of water usage across different zones or applications.

Smart Motor Controller



- Location: Installed at the motor's starter point.
- Function: Controls the motor's ON/OFF state.
- Receives control signals from the Display with GSM.
- Ensures safe and efficient motor operation based on tank status and water demand.



GPS TRACKING DEVICE



TRUCK BOSS

SMART TRUCK SECURITY AND TRACKING SYSTEM

- Complete Vehicle Security** – Advanced GPS technology ensures real-time tracking, remote engine control and full monitoring for maximum vehicle safety
- Total Control via App** – Monitor your vehicle location, movement, and status directly from your smartphone anytime, anywhere
- Truck Performance Monitoring** – Track vehicle location, driver performance, and trip history to improve fleet management efficiency
- Detailed Trip History** – View distance traveled date, time, and speed records for up to 100 days
- Safe & Comfortable Ride** – Enhanced security features give you peace of mind and make you the true boss of your vehicle



Over Speed Alert



Live Tracking



Halt Time



Travel History



Location Sharing



Distance to Delivery Point



Engine Off



A/C Temp Monitoring

AUTOMATIC WEIGHING SYSTEM

AWS AUTOMATIC WEIGHING SYSTEM



MICRO

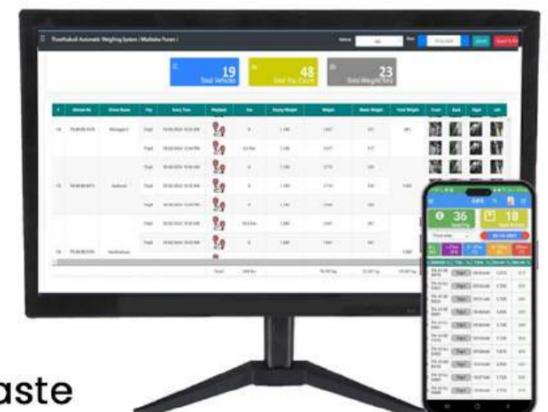


MINI



MEGA

- Compact & Versatile** – Space-saving 4x4 feet platform, ideal for small to medium-scale waste management operations, municipal, industrial, and commercial applications
- High-Precision Weighing** – Accurately measures waste loads from 0 to 1000 kg for small units and up to 5 tons for larger operations
- Smart IoT Integration** – Supports real-time monitoring cloud-based data access, and automatic weight & image recording for improved tracking and verification
- Visual & Data Documentation** – Captures clear images of waste for documentation while instantly transmitting weight and image data for efficient processing





Arm and Disarm by SMS

ID Access For 5 Mobiles

Store 5 Phone Numbers

8-Hour Standby

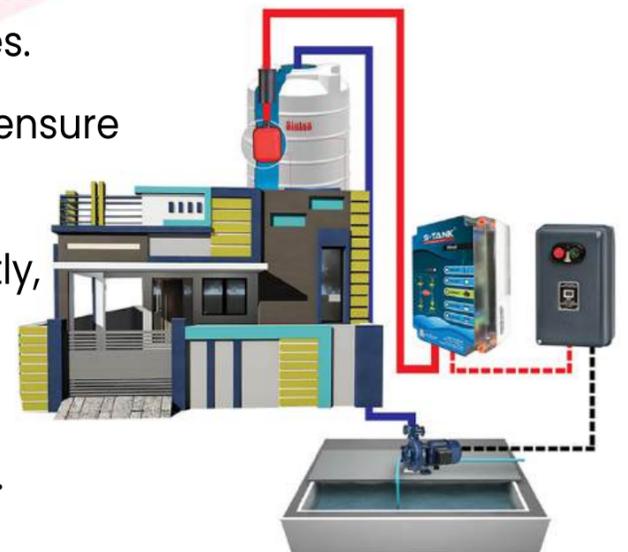
HOME SECURITY SYSTEM

- **24/7 Home Protection :** Ensures the safety of your home with advanced monitoring and access control features.
- **Instant Alerts :** Sends SMS and makes calls up to 5 stored numbers in case of any security breach.
- Light can also be controlled by Mobile Phone.
- During emergency we could on/off siren remotely using mobile phone
- **Motion Sensors :** Detects unauthorized movements and triggers immediate alerts.
- **100% Mobile Access :** Allows you to control your home security system from your mobile device.
- **Real-Time Notifications :** Provides instant alerts for any unauthorized access or suspicious activity
- **Easy Installation :** Simple setup with minimal wiring and user-friendly controls.
- **Ideal for Residential Safety :** Perfect security solution for ensuring peace of mind at home.

IoT SMART WATER MANAGEMENT SYSTEM

- **Accurate Water Monitoring :** Provides continuous and precise tank level readings to prevent overflows and water shortages.
- **Durable and Reliable Design :** Built with robust materials to ensure long-lasting performance in various environments.
- **Real-Time On-Site Display :** Shows tank water levels instantly, enabling quick and efficient water management decisions.
- **Easy Installation & Maintenance :** Simple setup and low maintenance requirements make it a user-friendly solution.

WIRED



WIRELESS



- **Real-Time Monitoring :** Provides accurate water level tracking to prevent overflow and shortages.
- **Smartphone Alerts :** Sends instant notifications for remote monitoring and control from anywhere.
- **Easy Installation & Maintenance :** Designed for hassle-free setup and long-term use.
- **Energy-Efficient & Reliable :** Ensures effective water resource management with minimal power consumption.

LIFT & ESCALATOR SMS FAULT ALERT SYSTEM



Smart Emergency System for Lifts and Escalators auto-detects faults, triggers alerts, and sends SMS reports using predefined keywords for instant action

- Sensors in lifts and escalators detects malfunctions or emergencies e.g., sudden stops, overloads
- These sensors with a central monitoring system trigger alerts automatically

Emergency Buttons: Install clearly marked emergency buttons within lifts and near escalators that passengers can use to alert staff about emergen

- **SMS Reporting:** Allows passengers to send an SMS to a dedicated number to report issues, using predefined keywords

IQUA WATER QUALITY PARAMETERS MONITORING SYSTEM



TDS (Total Dissolved Solids) Monitoring :

Accurately measures the concentration of dissolved substances to ensure water purity and mineral balance.

- **pH Level Detection :** Monitors the acidity or alkalinity of water to maintain safe and healthy water conditions.

Turbidity Measurement : Detects water clarity by identifying suspended particles,

- helping assess water cleanliness and filtration effectiveness.

Chlorine Level Monitoring : Measures residual chlorine to ensure effective disinfection and safe water for consumption or usage.

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SUBWAY WATER LEVEL INDICATOR



- **Automatic Water Level Indication:** Light signals display water accumulation levels in the railway subway—Green (≤ 1 ft – Go), Orange ($= 1$ ft – Caution), Red (> 1 ft – Do Not Cross).

- **Mobile App Monitoring:** Real-time water level in the sump near the subway can be monitored remotely via a mobile app.

- **Automatic Water Pumping:** If the sump is filled and electricity is available, the motor automatically starts to pump out water.

- **Solar-Powered Operation:** In case of a power outage, the light signal operates on solar energy with 2–3 days backup.

- **Enhanced Safety Alert:** Provides clear visual alerts to prevent accidents and ensure safe movement through the subway.

- **Reliable Automation:** Smart integration ensures efficient water management and timely response during heavy rainfall or flooding.



ENVIRO TEMPERATURE MONITORING

- Real-Time Temperature Monitoring with Display Interface
- High and Low Temperature Alerts via SMS and Email
- Alert Notification Limits
- SMS Alerts: Supports up to 5 Admin Numbers
- Email Alerts: Supports up to 10 Users
- Date-Wise Report Download with Interactive Graphs
- Data Backup: Stores up to 3 Months of Temperature Data
- Threshold Configuration (High/Low Limits) via Mobile App
- Location-Based Alert Setup Enabled
- Cross-Platform Support: Compatible with Android and iOS Apps
- Temperature Range: -55°C to $+125^{\circ}\text{C}$
- Accuracy: $\pm 0.5^{\circ}\text{C}$ (between -10°C and $+85^{\circ}\text{C}$)



Cold Storage Room



IoT BASED STREET LIGHT AUTOMATION

- **Long-Distance Connectivity** : Supports cable connections up to 5 km without significant voltage drop, ensuring reliable operation across large areas
- **Multiple Timing Schedules** : 10 programmable time settings allow flexible and automated control of street lights as per requirements
- **Mass Light Control** : Can manage and control up to 200 street lights simultaneously, improving operational efficiency



- **Durable Waterproof Protection** : Equipped with an SS304 stainless steel waterproof enclosure, offering excellent resistance against harsh weather conditions
- **Energy Saving Operation** : Automated switching ensures optimized energy usage by turning lights on only when required
- **IoT-Enabled Remote Monitoring** : Allows real-time control and monitoring of street lights through IoT integration ensuring smart city operations

KEY DIFFERENTIATORS & CAPABILITIES

- End-to-End "Concept to Product" Development
- Custom Automation & Control Solutions
- Scalable Manufacturing Setup
- AMC & Field Support
- Multi-Domain Expertise
- In-House R&D and Prototyping
- Embedded Systems & IoT Expertise
- Rapid Prototyping & Testing
- Custom Software & Mobile App Integration
- Compliance with Industry Standards
- ELCOT, GeM (Government e Marketplace) Registered vendor,

MANUFACTURING EQUIPMENTS



Laser Engraving Machine



SMT (P&Ps) Machine



Reflow Oven



Wave Soldering Machine



Wire Cutting & Stripping



Thermal Chamber



PCB Inspection System



Final Test Bench



Wire Crimping Machine



Sleeve Printer & QR code printer



Resistor, Capacitor lead forming and cutting machine

TEST & MEASURE EQUIPMENTS



Regulated Power Supply



Linear Leave Sensors Test Bench



Terminal Pull Out Gauge



Vernier & Micrometer

i-Tank in other States

- Uttar Pradesh
- Telangana
- Goa
- Andhra Pradesh
- Kerala



iTank in Tamilnadu Districts (installed & Serviced)

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