



# TECHNOFECTION

## AN IOT SPECIALIST

### FOUNDATION

*TECHNOFECTION* came into existence 4 years ago when *Mr Rakesh Mehta, Founder of the company*, wanted to build an organization that would break the conventional IT solutions and instead would build robust, industry specific, customized end to end solutions. Being from electronics and software engineering background, Telematics was a natural next step.

Soon he realized that instead of offering predefined specifications, it would be better if we could closely work with clients with specific requirements and deliver the exact product they want. Soon *TECHNOFECTION* started being known for customized end to end solutions.

### PRODUCTS

Apart from solutions, the company also came up with 3 different GPS modules under the brand name of “*Trakomatic*”, which has got a flexible architecture. Flexible architecture allows other required sensors like CMOS Camera, 2 way communication kit, central lock control etc. to be connected and customized easily. Depending upon the number of devices to be attached with the module the customer can choose among 3 options available. The company is looking ahead to build more interactive IoT solutions for the industry.

Very few GPS providers have a capacity to match Trakomatic where we can redesign PCB architecture, create relevant algorithms, Customize General user interface and support with customized mobile App.

## GPS AND BEYOND

Technofection with its motto ‘GPS & beyond’ intends to bring in the best of uses of Telematic products and concepts for making life of average Indian more informative, and easy.

Telematics, Internet of things, Big Data are the terms which would define the future course of ‘Company Growth Road map’

# INTERNET OF THINGS

ACCESS, MONITOR AND OPERATE YOUR ASSETS REMOTELY.

We are passionate about using technology in every possible business processes. Using our innovative ideas and combining Software and Electronics we are defining a new horizon in the arena of IoT, where the possibilities are endless.

Our in-depth knowledge of Electronics Sensing and Industry leading development tools make it possible for us to develop innovative IoT solutions for different verticals of businesses. We build intelligent business tools that summarize and synthesize live data from multiple sensors installed in different physical equipments used in the whole business process. With our IoT solutions and data analysis, decision making becomes absolutely easy and prediction becomes much more accurate.

## OUR VISION AND MISSION

TECHNOFECTION SOFTWARE intends to build robust IT solution for the society and the industry. These days almost everything moves on IT. In every aspect of life TECHNOLOGY has become evident. Our vision is to build more innovative systems by using the limitless power of electronics and computing. With our massive knowledge of Software Development and Electronics Equipment Designing we plan to build smart end to end solutions that will make better lifestyle.

END TO END  
BUSINESS  
SOLUTIONS  
POWERED BY  
CUTTING EDGE  
TECHNOLOGIES

With Trakomatic you would find entire range of products to suit your need. Whether it's the basic tracking utility or a complex utility like providing digital security to armed forces, we can handle it all.

# THINGS WE DO

## BUSINESS MOBILITY

### CLUBBING IOT AND CUTTING EDGE IT SOLUTIONS

In today's fast moving world business has become very competitive. It has been an evident that the most important thing for a business is the quality of customer service. Fast and efficient customer service can make a business win. Using latest mobile technologies and cloud computing we build IT solutions that brings mobility to a business.

## WHY US?

- Years of handful experience in IT
- Track Record of successful solution deployment
- Proven methodology and IT solutions
- In-house team of highly capable engineers

## APPLICATION DEVELOPMENT

### LEVERAGING THE POWER OF CLOUD COMPUTING

We specialize in building typical software that is used to handle very complex business processes and critical business data. It might be financial process, preventive and corrective maintenance process, sales and invoicing process or big data analysis process; we have immense experience in building software solutions to manage such processes.

Cloud application makes it absolutely easy to share data with global application users. Cloud system is the most powerful architecture when it turns into giving system access to different users from random locations. We specialize in architecting, building and deploying robust cloud solutions for different business verticals.

## HOME AND OFFICE AUTOMATION

### SAVE ENERGY AND GET REMOTE CONTROL

Using latest electronics sensor and switching we build robust network that can be used to control and monitor electrical equipments centrally. Over and above our mobile apps give you access to your electric network from anywhere, this means you can monitor, control and measure electricity usage remotely. Data from such smart electric network can be analysed further to detect any fault or to take decision on preventive maintenance.

# MAKING THINGS EVEN SMARTER

There are many sectors where IoT based systems can be deployed for better management and operation. Wide range of electronic sensors make it possible to gather data from human to nature to mechanical instruments and these data can be analyzed further to make proper decisions.

## ➤ SMART TRAFFIC SIGNALING

Traffic signaling has been digitized long back, but the process was not fruitful. The digitized and timer based traffic signals are sometimes inefficient in controlling traffic. We are planning for a better signaling system using advanced electronics sensor. Such smart signaling system will also help to clear the roads during any disaster emergency or medical emergency.

## ➤ SMART AMBULANCE

We have future plan of building more advanced ambulance equipped with medical instruments that can be monitored and controlled remotely. Using internet and A/V conferencing, such ambulances will remain connected with the doctors located in the city and treatment will become much faster. Such smart ambulance will bring a massive change in the field of telemedicine.

## ➤ SMART WATER SUPPLY SYSTEM

Using water flow sensors and water pressure sensors, the whole water supply system in a city can be made more effective and powerful. Pumping stations can be made automated depending upon the water flow and pressure level in different region of city. Also the whole system can be monitored centrally.

## ➤ SMART PUBLIC TRANSPORT SYSTEM

Using GPS, public transports can be tracked and managed more effectively. All public transports can be monitored centrally and action can be taken to properly distribute the transport system. Transport information can also be made publicly available; where public can track the arrival / departure of public transports easily.

# FLEET MANAGEMENT

## FLEET TRACKING, MONITORING AND MANAGEMENT

*Trakomatic* is an advanced Fleet Monitoring System with management capabilities that offers much more features than a standard GPS Tracking system at comparable, or in most cases lower cost.

The system is backed by technicians and engineers with the ability to customize expand and successfully deploy it to virtually any application. If a client owns or manage any of Vehicle enables businesses or any business that requires a fleet of vehicles or if a client has any Internet of things applications like smart homes, smart office then *Trakomatic* can help client save time and expense with a low maintenance and hassle free solution.

The difference with *Trakomatic* is that it communicates with client, and client may not have to keep monitoring it if he does not have the time/manpower to.

We will install the standard hardware for tracking client vehicles but we'll also discuss with client to determine what their fleet related problems are and how we can customize reports/information to help solve their problem.

That's the difference between dealing with a professional engineering company and a GPS tracking company, we solve problems and don't simply resell products we know little about.

# CASE STUDIES

## FEW OF THE RECENT PROJECTS WE HAVE EXECUTED

**Company:** Voler Cars Pvt. Ltd.

**Location:** Delhi

**The requirement:** The company was about to start a business of renting self-driven vehicles. The range of the vehicles was from Tata Nano to Mercedes. There were 3 primary concerns with them.

1. Live Tracking of their Vehicles
2. Vehicle's Key delivery to the customers
3. Monitoring fuel remotely

The company approached us and we offered them a solution that solved all their major concerns.

**The solution:** We proposed them a GPS and GSM based customized solutions that solved their business needs. We provided them Live Tracking using GPS. For vehicle's safety and security, we provided them a remotely controllable power cut-off system, that could immobilize a vehicle. Not only immobilizer, but we also provided them a facility to quickly identify the vehicles that are driven above the safe speed limit. We connected the vehicles Central Locking system with our device and made it possible to remotely control the vehicle's lock. This way, they used to keep the vehicle's key inside. Whenever a customer hired a vehicle, they remotely opened the lock and customer could take the key and drive away the vehicle. We also installed smoke detector inside, which could detect if somebody is smoking inside a vehicle. Their business model says that while returning a vehicle back, a customer needs to keep the fuel level same as it was during pick up. We resolved this issue with fuel level sensing.

# CASE STUDIES

## CONTINUED ...

**Company / Customer:** Krishna Gopal Das

**Location:** Haldia

**The requirement:** The customer owns a large number of JCB's and Hydra Cranes. The major problem with the customer was employee fraud. These asset vehicles are sent on remote location and the operator works in the location and report to the owner for total working hours every day. The operators was constantly lying and reporting false working hours and thus customer was suffering a huge loss.

**The solution:** We proposed our VTS solution to this customer and modified our reporting system to calculate daily working hours and average fuel usage. We connected a sensor to detect the working status of the hydraulic system and thus creating report of working hours. We also connected a relay with the ignition system, where the customer could de-activate the ignition system remotely, and saved abuse of his machines after working hours. We also provided a mechanism to the customer, where he could put a geo-fence covering the remote work location. In case the machined moved out of the area, the customer received an instance SMS notification. The customer was very happy and saved several thousands of rupees every week from each of his JCB's and Cranes.

# CASE STUDIES

CONTINUED ...

**Company / Customer:** Rintu Das

**Location:** Kolkata

**The requirement:** The customer has got a business of transport. He was having trouble with transport management and monitoring trucks on route. Unnecessary delay by drivers, over speed driving etc. was his major concern. He was concerned about truck hijack as well. He was looking for a system that can save his time, money and could provide a real-time information of his trucks.

**The solution:** We offered him our TM1000 vehicle tracking system with Panic Switch, Voice Calling and Camera. The system helps him to track his vehicles live and provide him critical information like over speeding, route deviation and reaching to a predefined location. Drivers can use the panic switch to notify the owner in case of any emergency and if required, the owner can immobilize the truck instantly. Recently the customer saved one of his truck from being hijacked and saved him a lot of money.

# THANK YOU

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