M2M Telematics Product Development for leading Technology Company

**BUSINESS REQUIREMENTS**

- Support telematics devices and product enhancement
- Build complete architecture of the solution around personal telematics and diagnostics device
- Web and mobile based solutions
- Provide offline support for telematics device that includes support for Bluetooth and implementation of device tracking system like geo-fencing
- Designing server side implementation
- Complete lab setup for supporting system testing of the device

**OUR SOLUTIONS**

- Device development: CAN, Free RTOS, OBD protocols, ST Microcontroller, IAR EWARM, ST link
- Server Implementation: PHP, MySQL, Mongodb and Python
- Testing: Labsat, RF Chamber, Thermal Chamber, OBD II Protocol Simulator
- Designing server side implementation
- Complete lab setup for supporting system testing of the device

**TOOLS/TECHNOLOGIES**

- **Device development:** CAN, Free RTOS, OBD protocols, ST Microcontroller, IAR EWARM, ST link
- **Server Implementation:** PHP, MySQL, Mongodb and Python
- **Testing:** Labsat, RF Chamber, Thermal Chamber, OBD II Protocol Simulator

**BUSINESS IMPACT**

- Enhancements of solutions like Geo-fencing, Low Power Reengineering and Accelerometer upgraded market position of the product
- End to End system testing reduced existing gap and enhanced the product leading to successful deployment
- Improvement of various features enriched look & feel and usability of product with cloud based tracking platform

**Solution Architecture Diagram**

- GPS Network
- GPS Satellites
- Cell Tower
- GSM/GPRS/3G/CDMA
- GPS Network
- GPS Signals
- GSM/GPRS Gateway
- Track Server
- B-call Voice message
- E-call/ B-call
- UART, CAN, GPIO interface
- Digital/Analog OPIO’s
- Vehicle Monitoring Software (ECU & Other Automotive Units)
- Vehicle
- Public Service Access Point
- E-call/data message
- B-call operator
- Data Storage
- Cell
- Accel
- E-call/B-call

**About Happiest Minds Technologies**

Happiest Minds, the Mindful IT Company, applies agile methodologies to enable digital transformation for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights. We leverage a spectrum of disruptive technologies such as: Big Data Analytics, AI & Cognitive Computing, Internet of Things, Cloud, Security, SDN-NFV, RPA, Blockchain, etc. Positioned as ‘Born Digital . Born Agile’, our capabilities span across product engineering, digital business solutions, infrastructure management and security services. We deliver these services across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India Happiest Minds has operations in USA, UK, The Netherlands, Australia and Middle East.

To know more about our offerings. Please write to us at business@happiestminds.com