

Project Name

HIGH VALUE ASSET TRACKER

About Client

Our client is an American manufacturer of industrial tools and household hardware. They also provide security products and locks for domestic as well as industrial applications. They specialize in engineering innovative industrial tool design to increase work efficiency.

Client Need

The client needed us to develop a tracking device which could be mounted on to their high value assets on field and while in transit so that they could locate it on a real time basis.

Project Scope

Following key tasks are identified to be within scope of this project:

1. Design and development of the Asset tracking module
2. Linux porting for custom hardware
3. Delivery of 10 working prototypes.
4. Delivery of design files

Solution Offered

Avench Systems developed a product prototype which combined smart modules based on Intel® Atom™ M x3 SoC Processor technology with a 64-bit, quad-core processing engine and comprehensive I/O resources which included the technologies of Wi-Fi, Bluetooth, 3G cellular and Inertial Measurement Unit(IMU) to know the position of an object in a 3 dimensional space. Its ability to triangulate an asset's position on a real time basis made it a valuable addition to anyone interested in tracking movement of their high value assets for various industrial and business applications.



Major Tech Used

- 9 axis IMU
- Telit HE922-3GR IoT module
- Telit RE866 Long Range module



Major Features

- USB 2.0 OTG
- UMTS/HSPA+ 21.0/5.76 (HE922-3GR Variant)
- Wi-Fi 802.11 b/g/n
- MicroSD Card

Conclusion

Through this project we were able to satisfy the needs of our client along the projected expectations. The journey of developing this project added to the process of learning and enrichment for our team, which we encourage at Avench Systems. This project was also one of those that improved our hardware and software synergy and integrated with efficient project management helped us achieve our desired goals with customer satisfaction. We were able to provide a high end and reliable piece of technology which will help in safety, security and monitoring operations at various stages of our client's field of work.