

Construction Tool Tracking: Enhancing Asset Visibility with IoT

The construction industry has evolved beyond hammers, nails and hardhats. Modern construction sites are complex and dynamic, with a maze of trucks, tools and storage equipment. In addition, a steady stream of contractors, personnel and deliveries are moving in and out of the construction site daily. Tracking, monitoring and managing these components is crucial for timely, cost-effective project delivery.



IoT-Enabled Asset Tracking and Data Management

Monitoring equipment and tools across a busy job site with a full-featured IoT tracker would be cost-prohibitive for the company, given the coverage area and the number of endpoints. So, we deployed low-cost *Bluetooth*[®] wireless technology beacons and sensors and used a mesh of IoT gateways enabled with Bluetooth technology. This solution enabled real-time data collection and reporting from tagged assets around the job site.

The solution provided everything an extended construction project needs, including:

- Increased battery density for a longer time between charges
- Reliable connectivity for indoor and outdoor applications
- [Precise asset location and condition data](#) that can be managed from anywhere

Construction Industry Challenges

A leading construction company faced challenges that resulted in substantial financial losses. These obstacles included:

- Equipment theft
- Poor asset management
- Decreased productivity

The organization was losing hundreds of thousands of dollars in equipment and productive labor hours. These losses impacted project timelines and limited the company's ability to bid on jobs.

Improved Visibility and Safety Compliance with Construction Tool Tracking

Our IoT solution for construction tool tracking brought myriad benefits to the company, including:

- Improved job site visibility
- Remote equipment audits
- Remote alarm and geofence configuration embedded thermostability sensors

The solution reduced both theft and misplacement losses and repair and replacement costs. Moreover, it enhanced uptime with predictive maintenance and increased asset productivity while improving compliance with safety regulations.

Speak with our IoT experts to get started on your construction tool tracking solution.



Create Your Custom IoT Solution

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