



## Project objectives

- Create a clear real-time visualization of micro-downtimes on SMT lines for an automotive electronics assembly plant using color-coded station status.
- Enable fast identification of station inactivity, reduce operator response time and maintain smooth and continuous production flow.

## Project results

- Functional visualization of SMT line micro-downtime, connected to an SQL database and iTAC observer.
- Enables SMT line switching, pop-up notifications during downtimes and simultaneous observation of multiple SMT lines.
- Scalable, production-ready solution with full documentation for future expansion and customization.

## Technologies used

