

SUCCESS STORY

Embedded Algorithm Testing using J-TAG

Business Problem

This company engaged CPS TECH to measure and monitor values of toxic gases in the atmosphere in order to warn workers of hazardous atmospheric conditions.

Implemented Solution

In order to overcome these challenges, we used code debugging with the JTAG (Joint Test Action Group) standard which enabled us to recreate the actual scenario and execute the firmware step by step. Using the JTAG, we were able to test, monitor and imitate the behavior of the instruments' algorithm in safety critical situations.

Business Results

- Extensive testing of algorithm helped the client achieve high quality of the product with no report of algorithm failure or missed gas detection
- The improved product quality brought an increase in the number of satisfied customers to the gas detection company
- Reduced product maintenance costs and risks improved the product profitability



Client

This gas detection client in the is renowned for offering a broad range of devices, from off the shelf instruments to special peer network structured instruments. The instruments that this company develops help save human lives in industrial environments and hazardous places on daily basis.