

Case Study: Assembly Line Automation

Provider Name : KALKI Communication Technologies (P) Ltd.
Client Name : GE Fanuc India
Project Title : Assembly Line Automation for US Automobile Major

The Requirement

The client required to develop CIMPLICITY HMI screens and associated logic for their assembly line automation system. The requirements mainly involved extracting the CAD data into CIMPLICITY, removing unwanted items and then developing CIMPLICITY mappings based on the associated logic. Kalki engineering and field services team worked with the client in an Off-shore model, to develop the CIMPLICITY HMI and logic.

The Solution

The following Resources were utilized to carry out the Engineering and Design tasks:

1. GE Fanuc CIMPLICITY 6.0
2. GE 90-30 PLC
3. End-Customer specifications
4. CAD Drawings

The project involved automotive assembly with a large number of HMI stations with numerous HMI screens. The end-client required an off-shore model for developing the HMI screens and integrating with their control logic. The end-client development group sends the CAD drawings that they have implemented as part of their Assembly line setup. These drawings are imported into CIMPLICITY, and the associated tags are inserted and the database and interlocks done at our development center. These are then send to an onsite team, who will complete the final integration.

Tools Used:

- GE Fanuc CIMPLICITY 6.0
- NT Operating System Utilities for service management