HUMAN MACHINE INTERFACE FOR FACTORY AUTOMATION

Datasheet

Project objective

Implement the HMI that is run on a touch panel integrated into the panel-cutting machinery to communicate with axis control motors. To optimize the cutting processes, the wall-cutting machinery was expected to be easy, safely, and controlled by a human.

Result

The reliable and user-friendly HMI allows the client to execute panel-cutting operations safely, quickly and reliably.

Scope of work

- Enable Setup, Main, and Maintenance functionality control
- Microsoft HMI for Windows platform
- UART-based control protocol for communication with the machinery hardware
- The ability to switch the screen between various metric units

Activities

- Functional requirements definition
- HMI design
- Business logic implementation
- Software development

About the project

Technologies

❖ C/C++
❖ MFC
❖ Microsoft Visual Studio

Platforms

❖ Windows CE 6.0

Project size

❖ 1 Technical Coordinator
❖ 1 Project Manager
❖ 3 Software Engineer
❖ 1 QA Engineer

Duration

9

9 months
September 2014 – July 2015