

Customer

Global Pipeline Welding Solutions Company

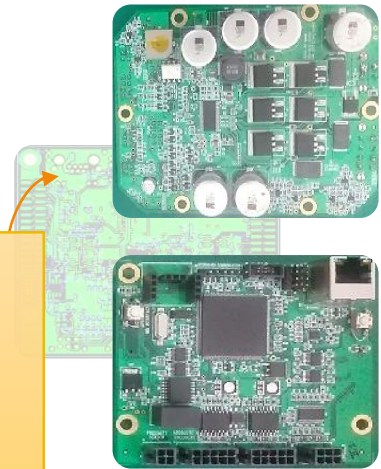
Solution Components

Overview

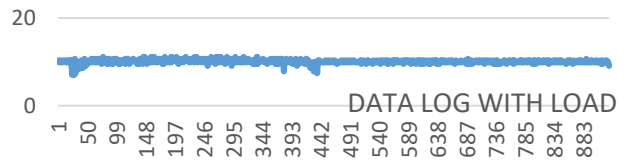
To design a remote control and data logging system for a pipeline welding system with cloud based data acquisition.

Requirements

1. Remote control and data logging system for gas pipeline welding solution
2. Automation for 2 welding heads; works in parallel via single operator
3. Remote Configuration and Job card programming for welding of different job requirements
4. Data logging to the Server and report generation
5. Analytics for system performance and welding inspection
6. Android based Mobile control system



- ARM Cortex M4 MCU
- Driver Board for BLDC Motor Drive
- LEDs for status for Job work
- Wi-Fi Module for wireless Connectivity
- Sensors for 3 Axis (Gyro / Accelerometer / Magnetometer)
- Single Shaft BLDC Motor with digital Encoder



Solution & Benefits

- Design of Complete Smart Welding Solution
- Operator able to control the welding device remotely via tablet
- All welding parameters / Job card can be configured via remotely through mobile app
- PID Implementation & Inertia Measurement for BLDC Motor Control Drive
- IP based connectivity for mobile app
- Remote Firmware upgradation via mobile app
- Multiple Heads can be configured in single shot
- Provide data logging to monitor job history like total run time and errors