Application Brief
2020

Emerging Technologies

Spare Interface Modules

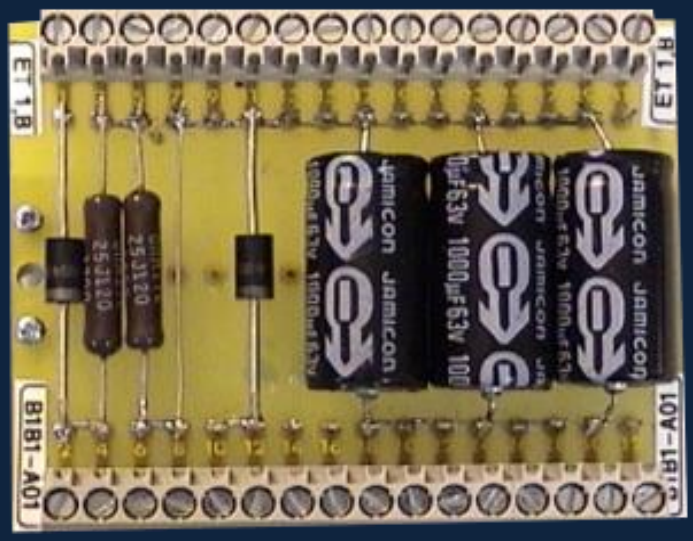
Brief Description:

Emerging Technologies, LLC. was called upon from a local company to functionally replicate a group of custom interface circuit boards, used on an existing piece of production equipment.

Before the project started, there were no spare boards for the machine and if one happened to fail the machine would have significant downtime until it was either repaired or replaced.

With a drawing set provided by the customer, Emerging Technologies researched all hardware needed for each module, procured the PCBs and hardware, and populated the PCBs with components according to the drawing specifications.

Once each module was created and bench tested, Emerging Technologies delivered the completed units to the customer. Each module and its respective drawing were reviewed with the customer to ensure compatibility with the original modules. Final testing is complete when each module is replaced on the machine and tested for normal operation.



Customer Benefit:

In the case of a failed module on the machine, the customer will save significant downtime with replacement modules, onsite and ready to install. The replacement process only takes minutes instead of the hours or days needed to troubleshoot and repair the failed module or create another module.

ET Responsibilities:
- Functional Specification Generation
- ✓ Design / Engineering
- ✓ Fabrication
- Programming – Software
- Programming – Firmware
- Field Installation
- ✓ On-Site Commissioning
- ✓ Post Commissioning Support
- Other

Technologies:
- Embedded Computers
- Microcontrollers
- Visual Software
- Control Software
- Data Acquisition
- Computer Based Control
- Communications
- System Integration
- ✓ Other – *general electronics*

Customer Category:
- OEM
- ✓ Industrial Manufacturer
- Custom Equipment
- Utility
- R&D

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