IN CIRCUIT SERIAL PROGRAMMING SYSTEM

Brief Description:

Emerging Technologies, LLC. was called upon to develop an In Circuit Serial Programming (ICSP) system for a new line of products for an existing customer.

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The system needed to be easy enough for nonengineers to be able to operate and flexible enough to accommodate the entire product line.

APPLICATION BRIEF

Emerging Technologies utilized a Microchip Promatell programmer and a modified version of ET's existing product (Promatell Interface Software) and custom designed and built spring contact style manual programming fixtures for each variation of product. The system allows users to connect the appropriate fixture to the programmer via HD15 computer cable. The firmware is selected by Browsing, as is common to most Windows applications. The operator can then download and program the part by holding the part onto the spring pin fixture and clicking the program button. The Visual Basic based interface provides feedback of the operation to the operator.

Customer Benefit:

The customer was able to perform production programming of their devices using the Emerging Technologies, LLC. custom designed In Circuit Serial Programming system with very little knowledge of microcontroller programming. The programming operation was reduced to a few simple steps while allowing excellent flexibility to accommodate change. The system also can be used with Microchip's MPLAB allowing full capability for development by the engineers.



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

Customer Category:

OEM ✓ Industrial Manufacturer Custom Equipment Utility R&D