ECE 477 Digital Systems Senior Design Project – Spring 2006

The J-Team / RFID Xpr3ss

"Two Thumbs Up!" - Jewel & Osco

"A state-of-the-art self-checkout station utilizing RFID technology to enhance the retail store customer's checkout experience"

Complete Design Process
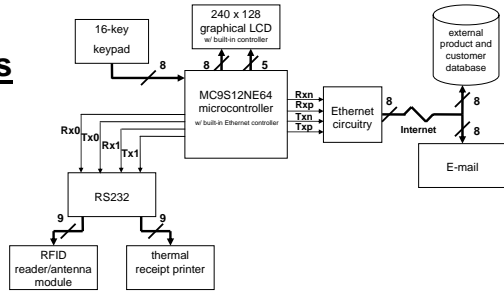
from a block diagram

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to PCB layout & fabrication

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to a finished product!

Digijock(ette)-Strength Digital System Design™
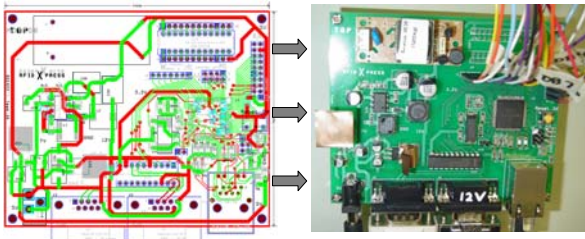
"The best thing to happen to supermarkets since sliced bread!"

Customer receives e-mail and printed receipts
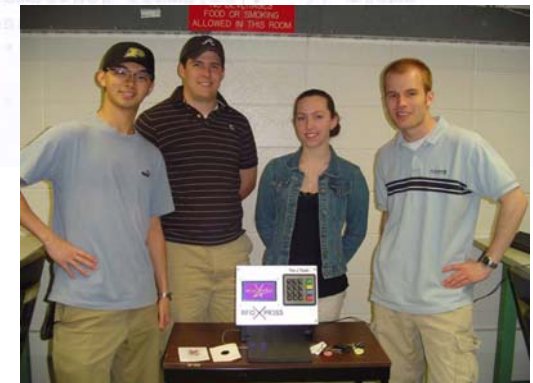
**The J-Team:
Jonathan, Jared, Jenny, Josh**

The RFID Xpr3ss system can:

✔ identify a customer based on a key ring transponder and PIN code entered on a keypad

✔ identify an item and look up data on that item based on its RFID tag

✔ display shopping cart information on an LCD

✔ print and e-mail receipts

✔ gather product and customer data by querying an external database using Ethernet