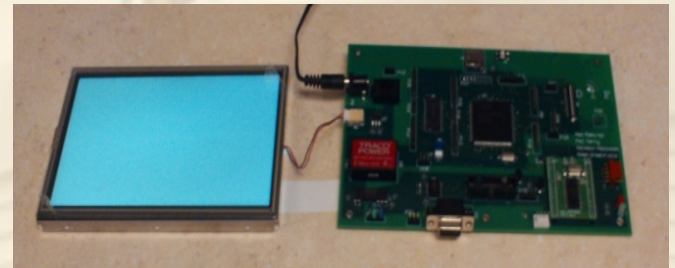


DIFR

Abstract - The fitting room of the future

DIFR (Dynamic Information Field Receiver) will deliver a revolutionary touch-screen LCD unit which will be placed inside of apparel retailer fitting rooms. The prototype currently under construction is shown to the right. This device will give customers access to a store's inventory, including pricing and different sizes/colors. Their clothing items will be automatically scanned using Radio-Frequency Identification (RFID) technology, and product recommendations and specials will be offered to them based on their selections.

The device operates by allowing users to scan items tabulated with RFID tags and displaying relevant information pertaining to the specific items on an interactive touch-screen. The image to the right shows an example of a possible touch-screen interface system. The device is outfitted with a microSD card slot, allowing the device owner to easily upload a database of items.

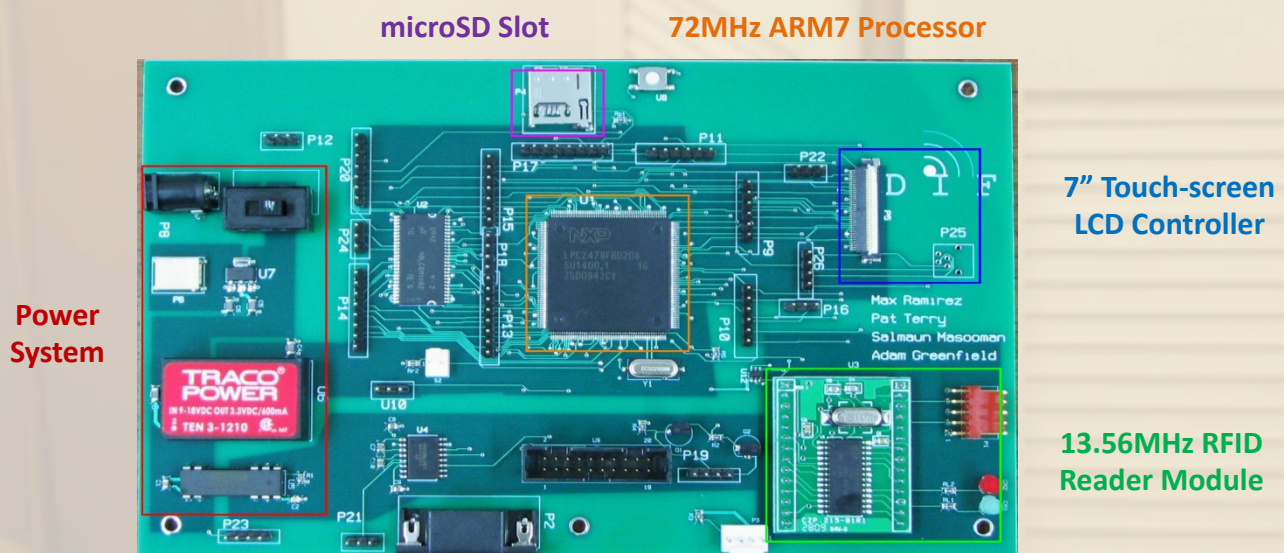


Prototype Board



LCD Interface

Hardware Layout



Max Ramirez
 Computer Engineering
 805-323-6297
 maximiliano@uail.ucsb.edu

Salmaun Masooman
 Computer Engineering
 805-403-2797
 masooman@uail.ucsb.edu

Pat Terry
 Electrical Engineering
 805-260-5238
 pwterry@uail.ucsb.edu

Adam Greenfield
 Computer Engineering
 805-350-1685
 acidaris@sbceo.org