Design of Detachable Address Book for Telephone Speed-Dial Programming

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The Big Picture

Number Pad-less Phone
"Picture" speed dial
Receives any call





Hand-held device
Plugs into phone (wireless or phone line)
LCD screen
Number pad to program numbers

3 7 6

Add Delete Edit Prev Next Curr

Research Goals

1. Familiarize with Hardware



2. Familiarize with Software



3. Program handheld to act as an address book

Method for programming microcontroller

In PSOC Express

- 1. Select an input
- 2. Select an output
- 3. Choose a transfer function
- 4. View simulation preview
- 5. Connect jumper cables

Program the microcontroller







How to structure data/contacts within memory



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Linked List data structure within memory





Accomplishments to Date

- 1. Designed various projects with simple functionality of microcontroller using PSOC Express
- 2. Fully exhausted PSOC Express's ability to manage memory
- 3. Able to store data temporarily within memory using PSOC Designer

Future Plans

- 1. Able to store data within memory permanently
- 2. Integrate ICE (In Circuit Emulator) debugger



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