

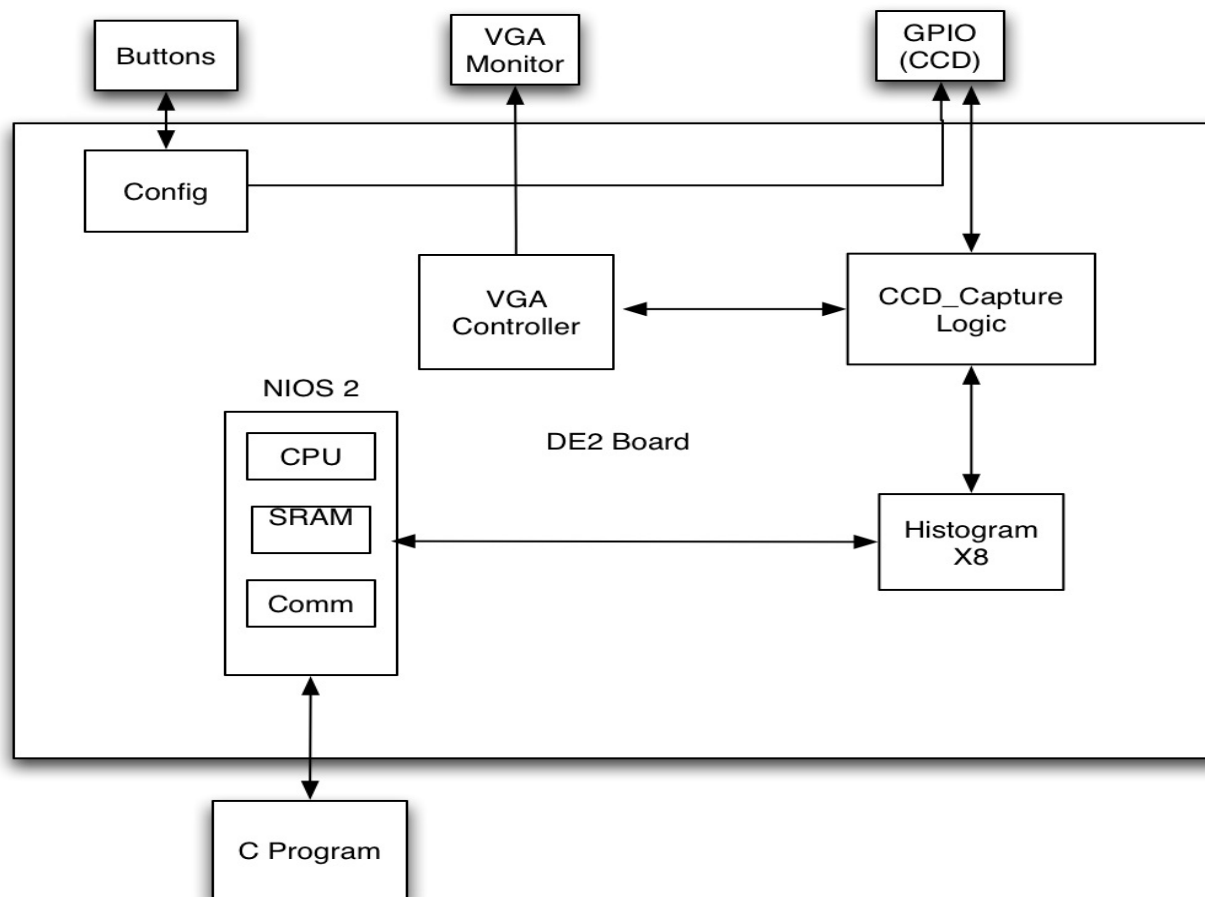
CardCounter

Final Presentation

Project Overview

- Card recognition machine
- Architecture and Interface (Chris)
- Software (Nate)
- Physical Issues(Hugh)
- Lessons Learned (All)

Architecture



Interface

- Avalon Fabric
- Separate Communication Peripheral

Timing

- Two Separate System Clocks
- Nios system at 50 MHZ
- CCD at ~ 25 MHZ

Software

- Allocates Memory
- Sets threshold for data acquisition limits
- User controlled system load
- Dynamic card assessments

Physical

- Stable System Luminescence
- Fixed Sample Position

Experience

- Time Management
- Systematic Design Approach
- Proactive Team Communication