

EE 200

Design Tools

Laboratory 16

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Laboratory 16 Topics

- Hardware Realization using a Microcontroller
 - Implementing finite state machines
- Realizing Asynchronous Resets using Polling
- Realizing Asynchronous Resets using Interrupts
 - Peripheral Pin Select feature

Realization of a FSM in C

- Use nested switch statements within a while-loop
 - Directly analogous to LabVIEW which uses nested case structures within a while-loop structure
- Outer-level switches on the current state
- Inner-level switches on the input