

Atmel Lecture

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Demo

Digital with led and buzzer

Analog with pot

Features

8 bit timers

- PWM

- ICR

- OCR

16 bit timers

- PWM

- ICR

- OCR

USART

SPI

GPIO

- internal pull up

10 bit ADC

- comparator

Common Chips

Atmega 32/324p

40 pins

32 k memory

Atmega 128

128k memory

Atmega 2560

100 pins

256k memory

Assignment

You will need to rebuild and modify this demo circuit for the assignment.

This assignment must be demoed in the lab during office hours.

Programing

Programing in C using AVR Studio

Requires a ISP or JTAG programmer

ISP available for \$17 dollars through university program

ISP programmers are available for checkout during office hours

Free Software

AVR Studio-Install First

http://www.atmel.com/dyn/products/tools_card.asp?tool_id=2725

WinAVR-Insatall Second

<http://winavr.sourceforge.net/>