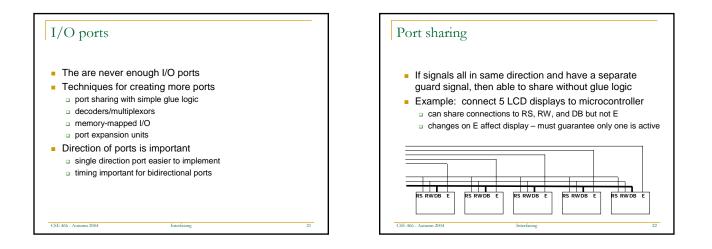
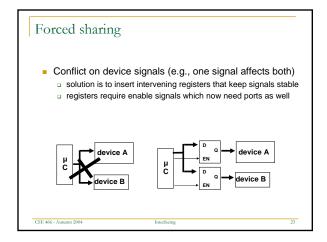
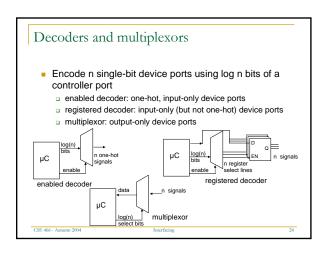
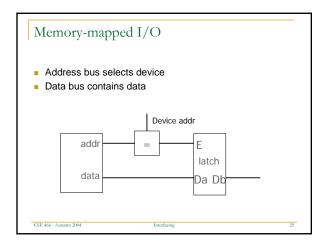


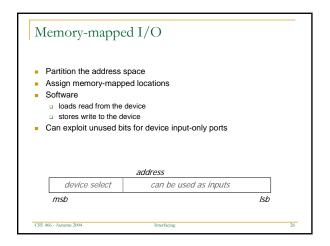
## General interfaces to microcontrollers Microcontrollers come with built-in I/O devices Timers/counters GPIO ADC Etc. Sometimes we need more . . . . Options Get a microcontroller with a different mix of I/O Get a microcontroller with a different mix of I/O Get a microcontroller with a different mix of I/O Get a microcontroller with a different mix of I/O Serial communication to the outside world

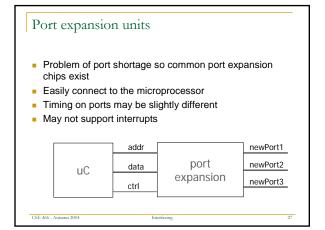


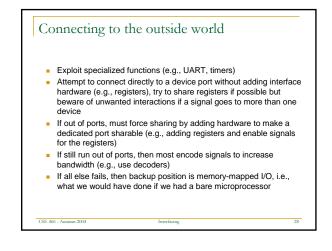


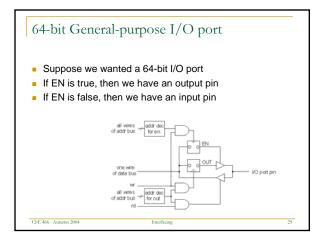


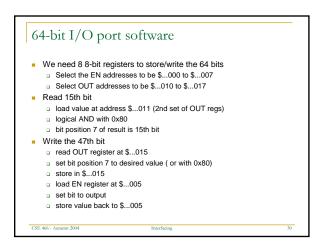


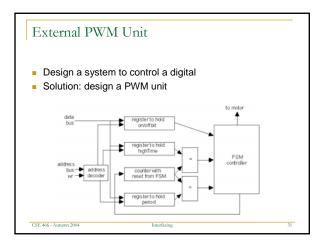


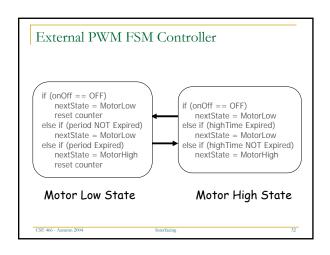


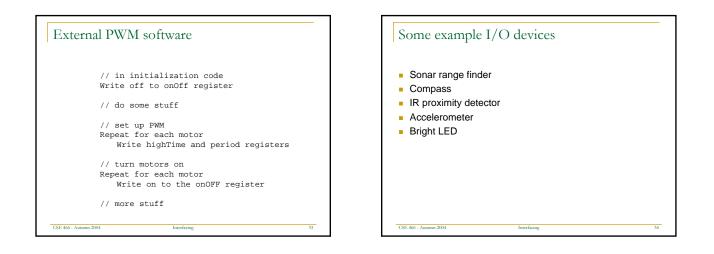


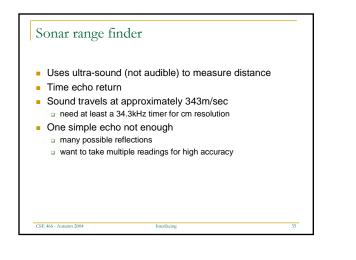


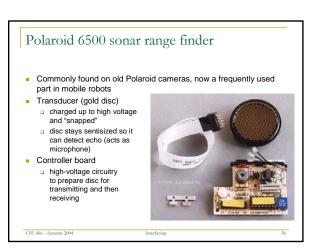


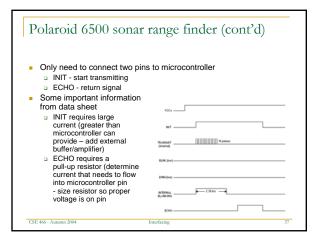


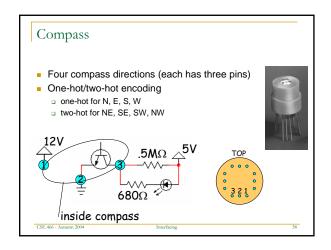


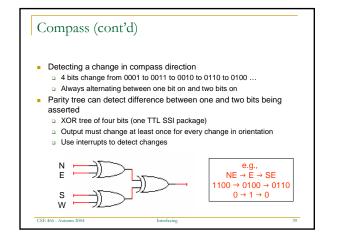






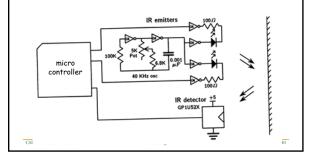


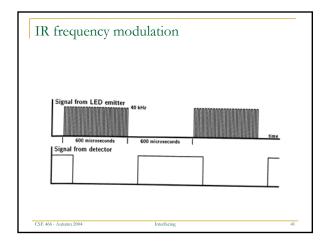


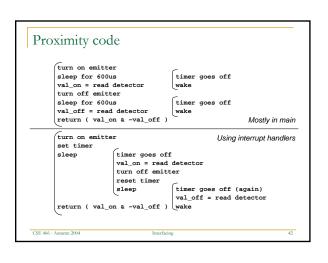


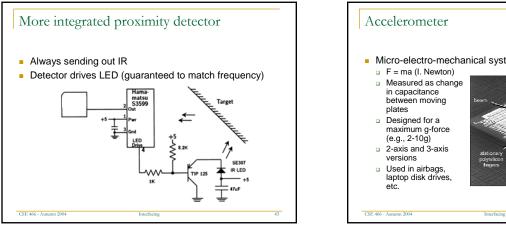
## IR proximity detector

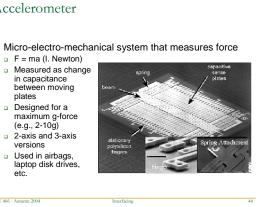
Oscillator must be set to match detector

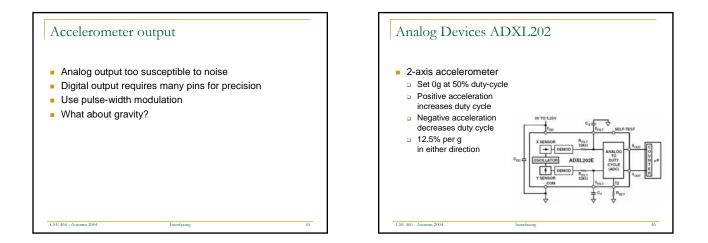


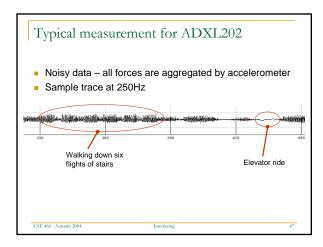


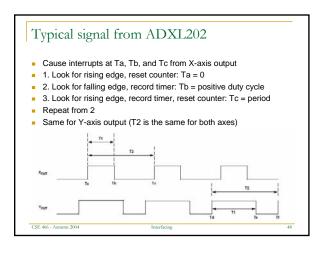


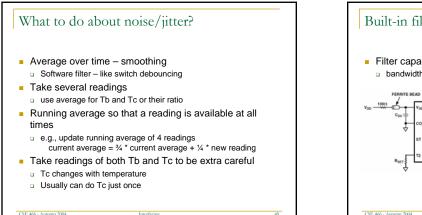


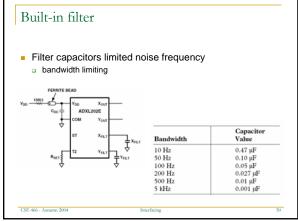


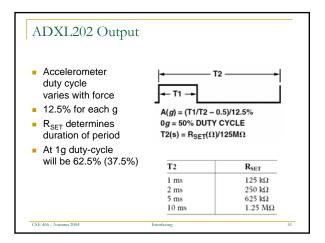












## ADXL202 Orientation • Sensitivity (maximum duty cycle change per degree) is highest when accelerometer is perpendicular to gravity $\underbrace{F_{integration}}_{0 \text{ torows ww}} \underbrace{F_{integration}}_{0 \text{ torows www}} \underbrace{F_{integration}}_{0 \text{ torows ww}} \underbrace{F_{integration}}_{0$

