

# ECE-218 Embedded Microcontroller Projects

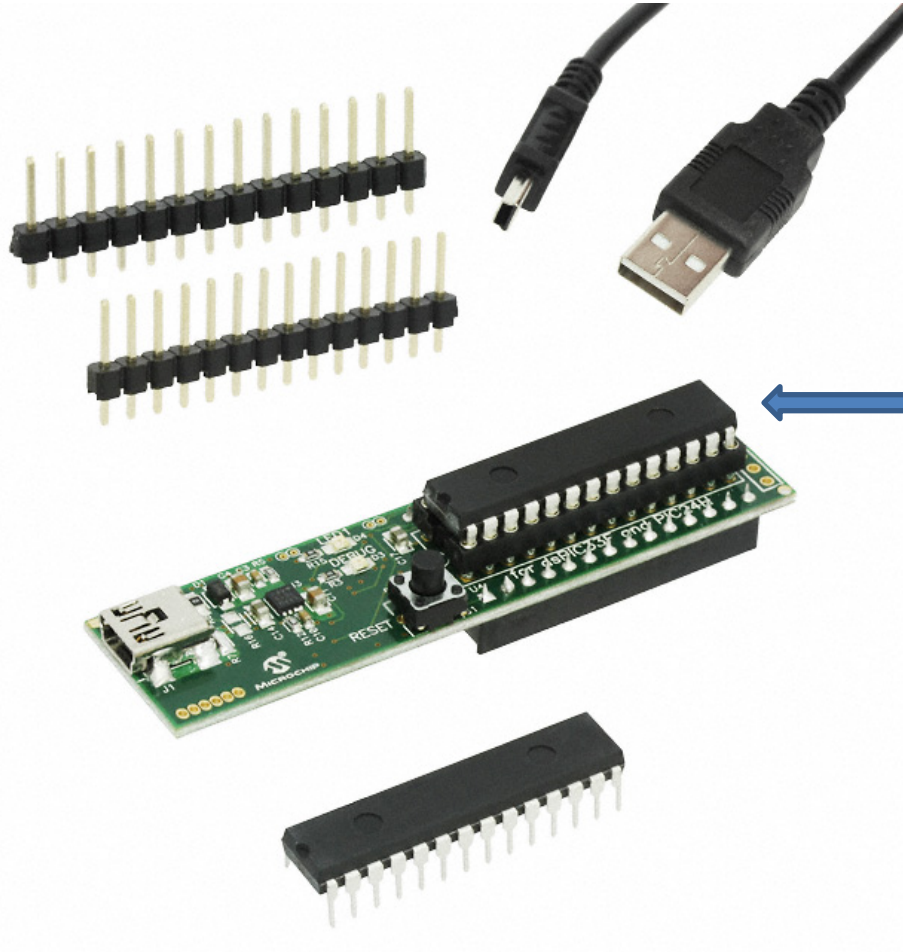
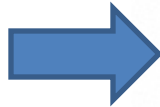
Background for Exercise 0 – Setup

# Overview of Exercise 0

- Install MPLAB X, XC16, and text PIC24 library
- Explore Microstick II Development Kit
- Add headers to the Microstick II board

# In the Box

Headers for  
protoboard



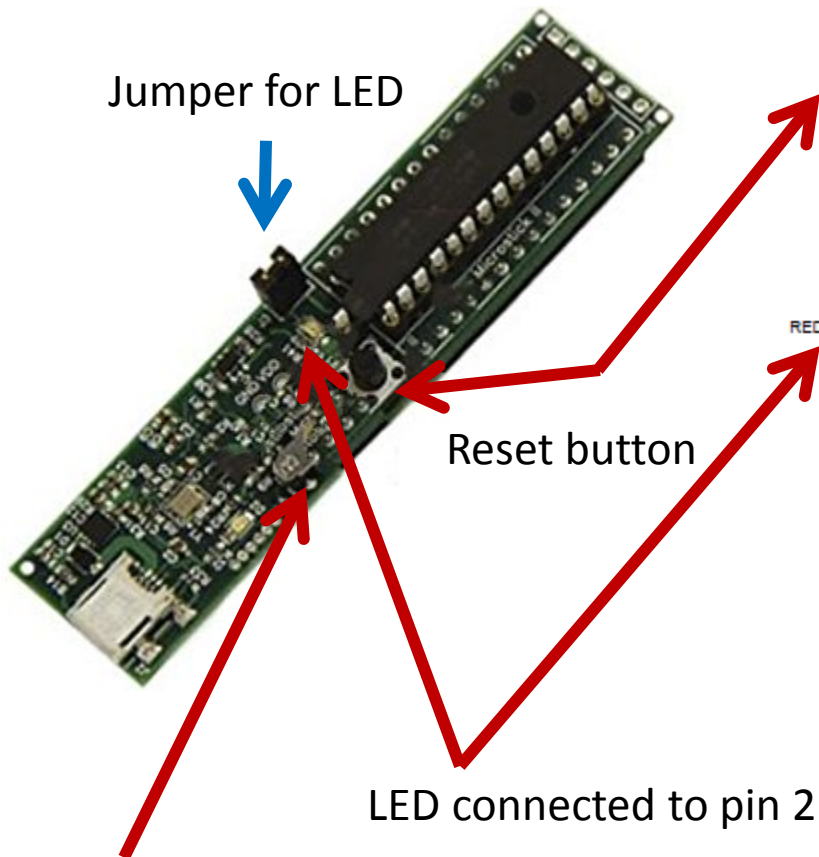
Replace with  
PIC24HJ128GP502



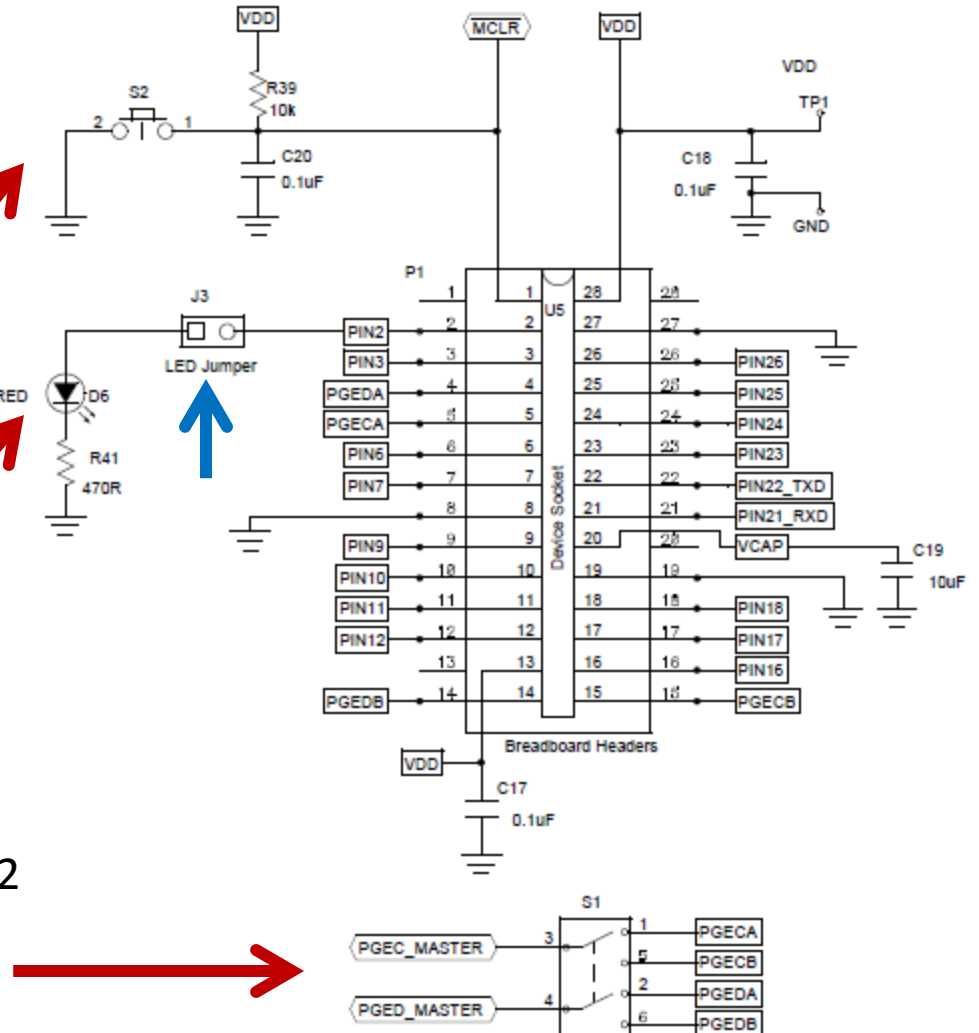
Information  
Sheet with  
Schematic

# Microstick II

Schematic from Information Sheet in Box



A/B Switch for selecting download pins  
Keep in the A position



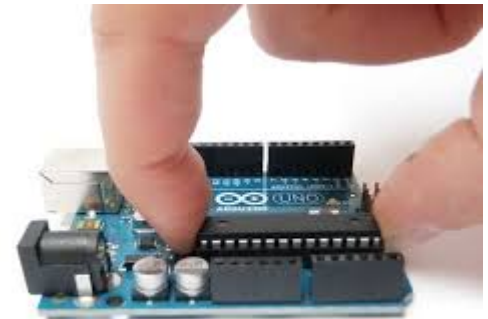
# Equipment/Parts Needed

- Two-pin header for VDD and GND
- Six-pin header for serial cable
- Soldering iron/Fan
- Laptop

# 1. Replace chip with PIC24HJ128GP502

## Removing Chip from Socket

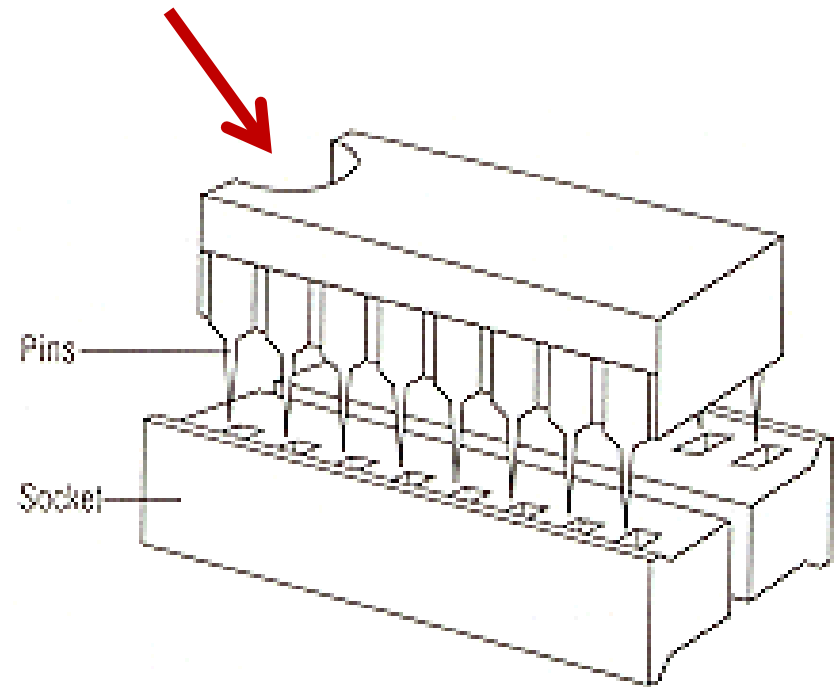
- Ideally, use a chip puller.
- Can use fingers or small screwdriver.
- Try to have all pins release at the same time so they don't bend.



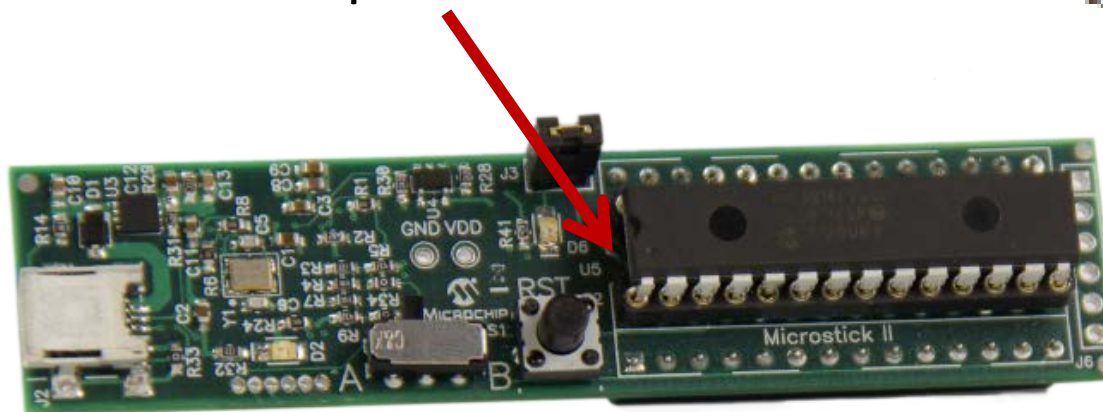
# Inserting PIC24HJ128GP502

- Line up top of chip with notch in outline on Microstick II board.
- Be sure pins are lined up with holes before pressing it in.

Top of Chip

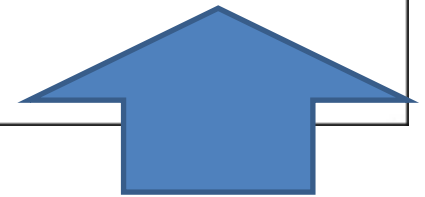
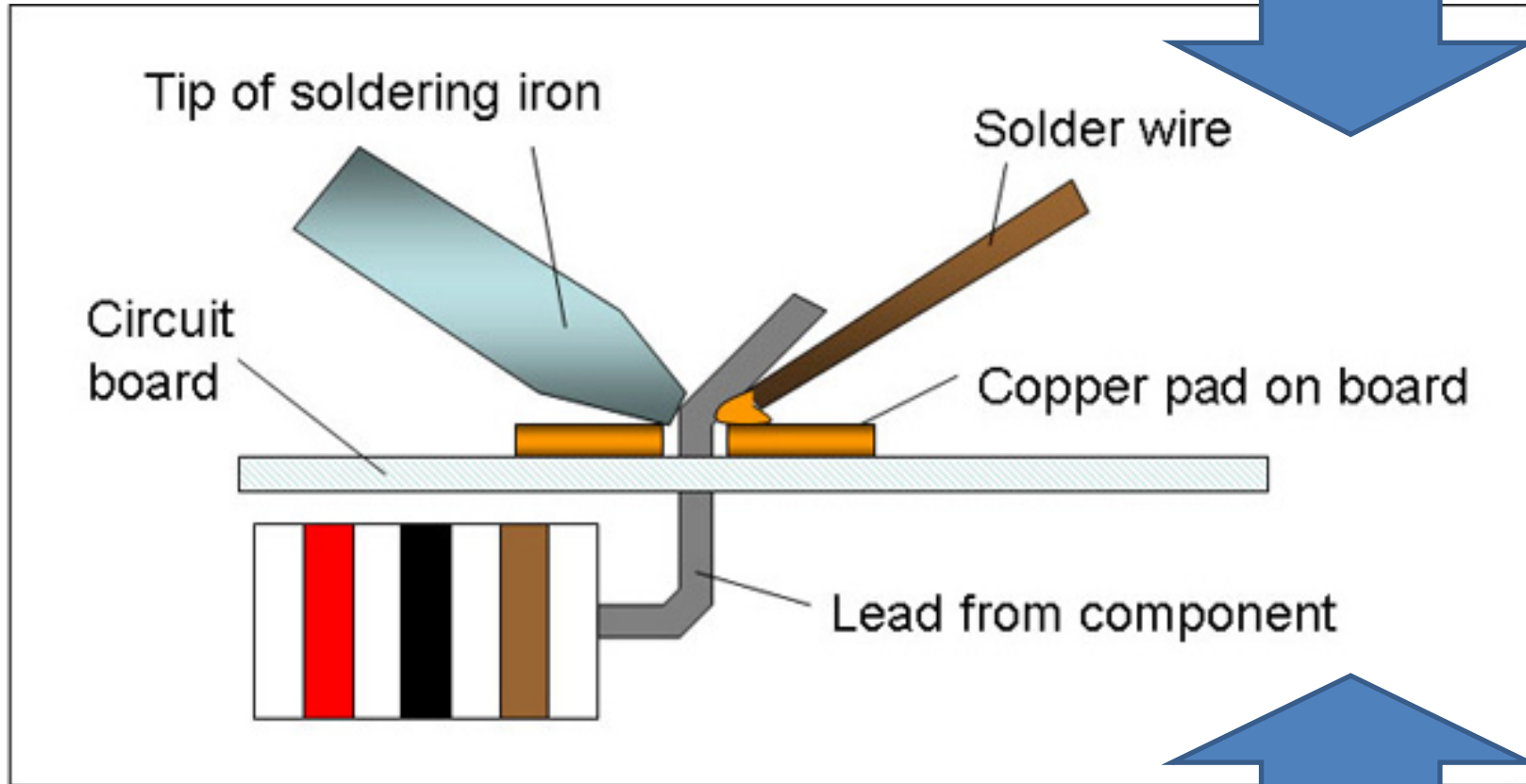
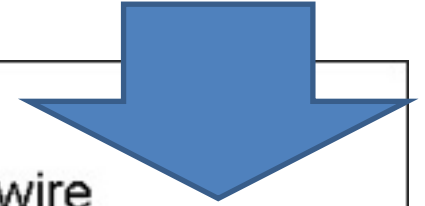


Top of Socket



# Soldering Basics

**bottom**



**top**



# Completed Board

