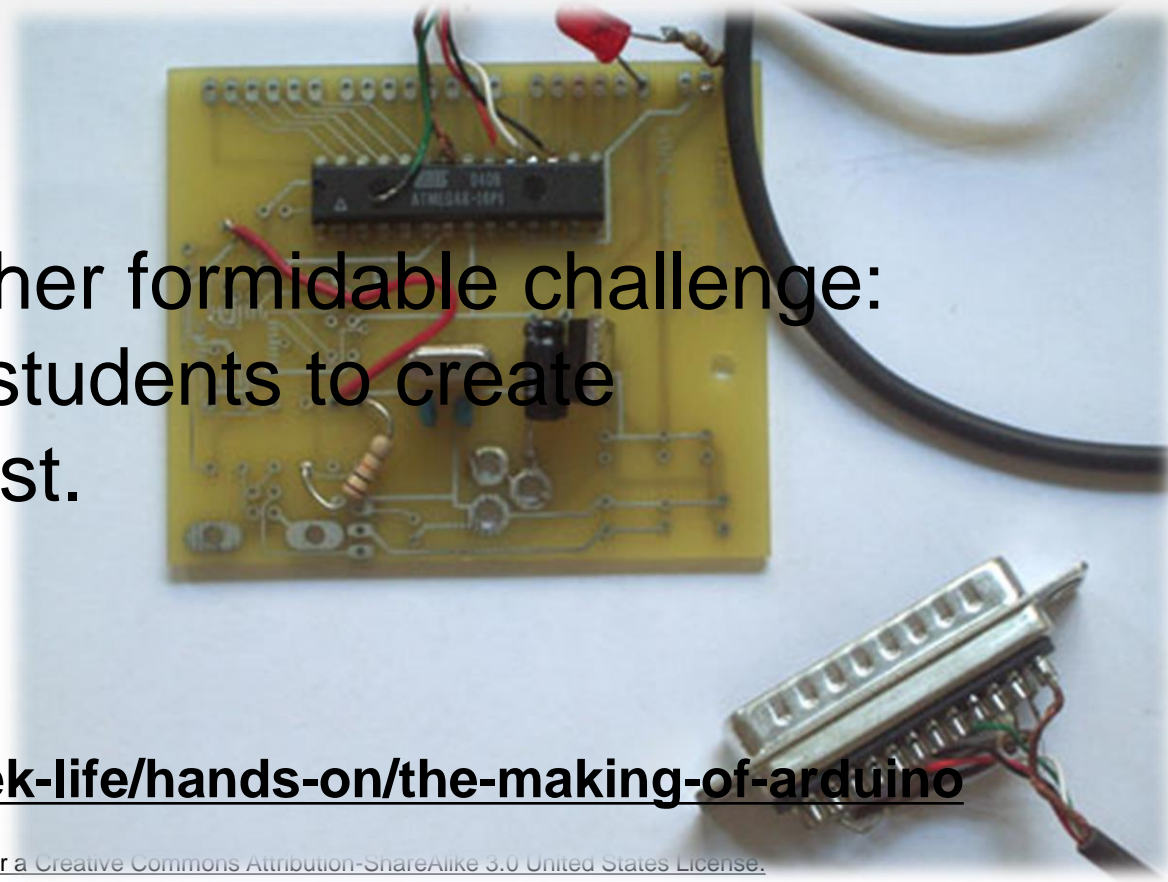# Arduino…

is the go-to gear for artists, hobbyists, students, and anyone with a gadgetry dream.

rose out of another formidable challenge: how to teach students to create electronics, fast.

http://spectrum.ieee.org/geek-life/hands-on/the-making-of-arduino
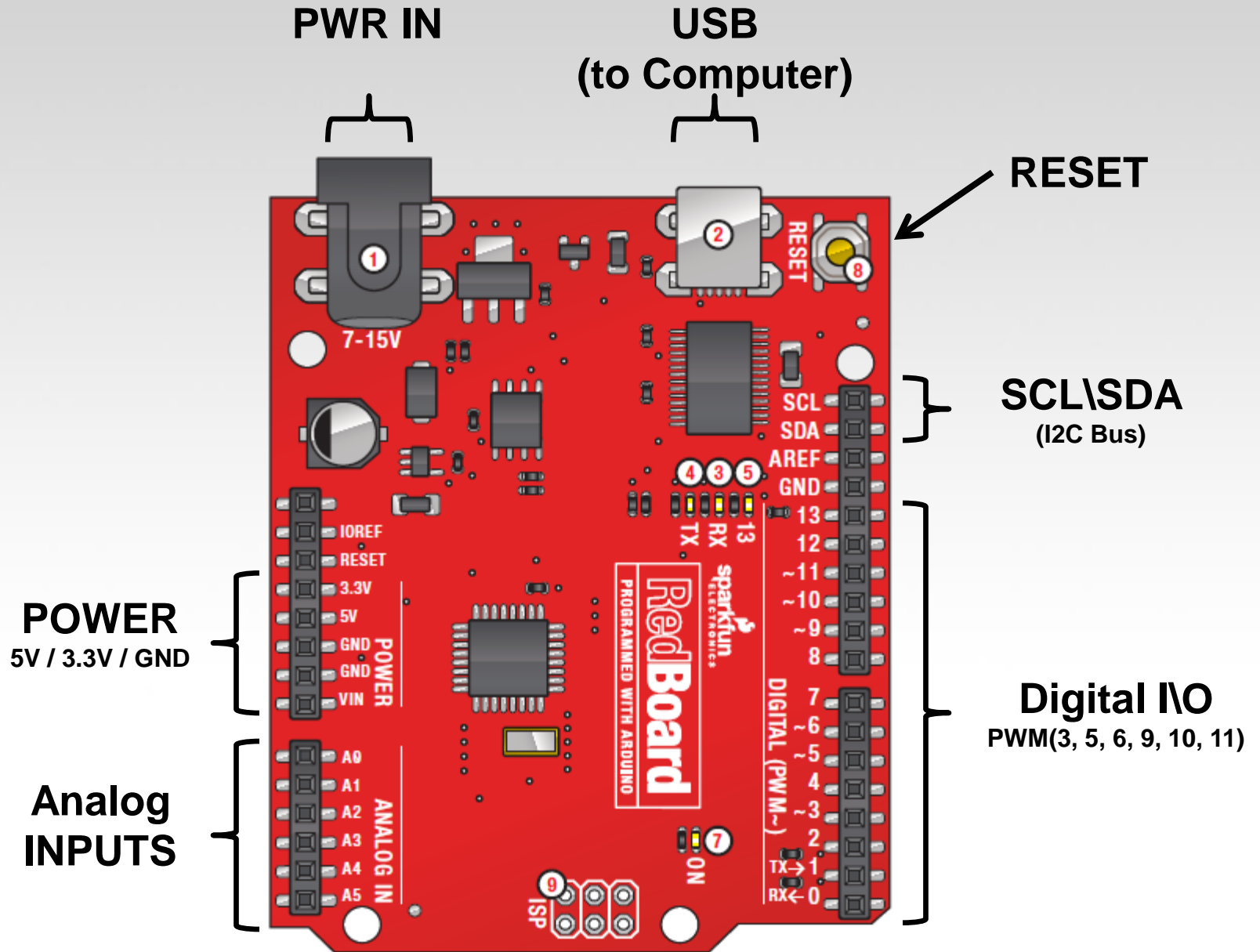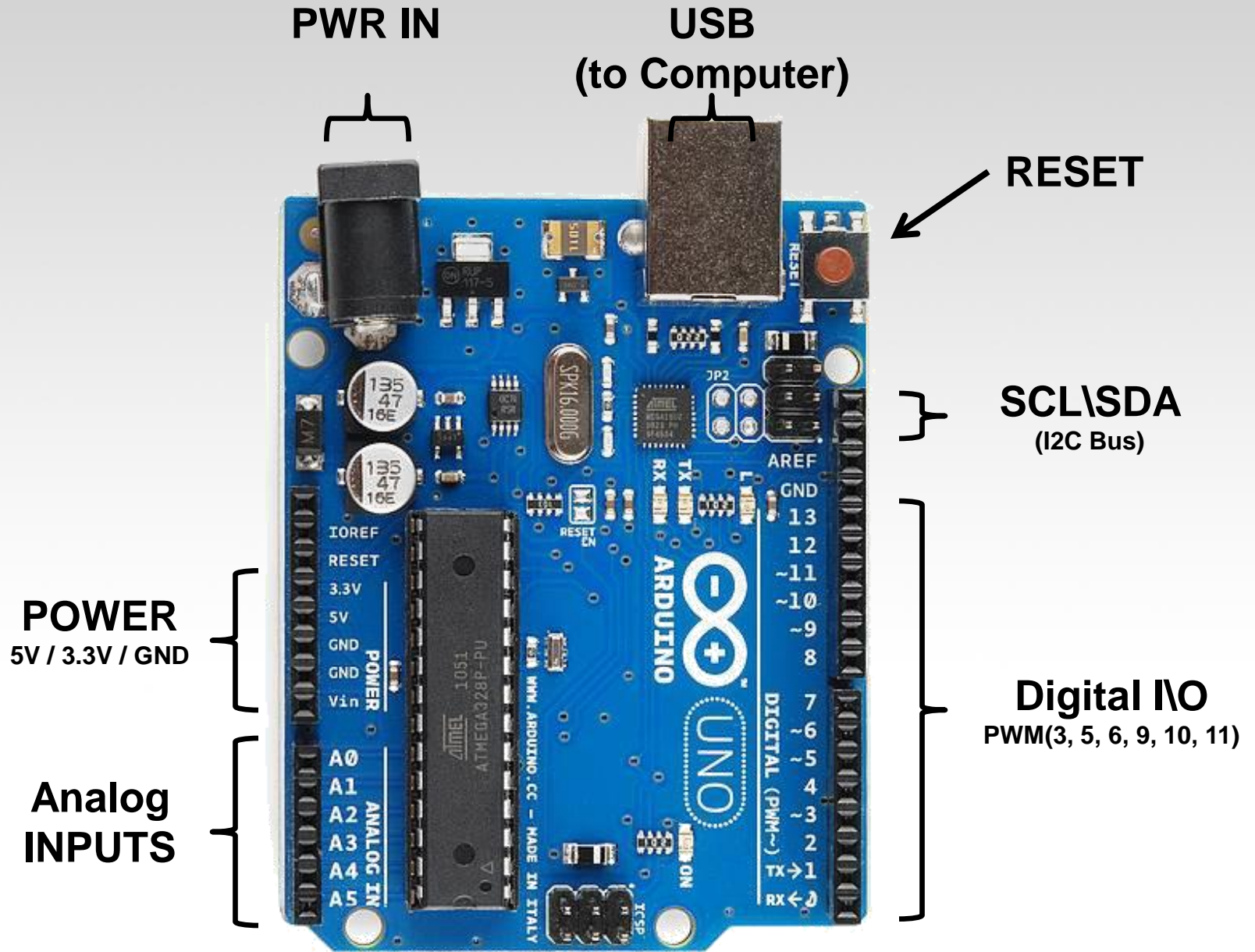
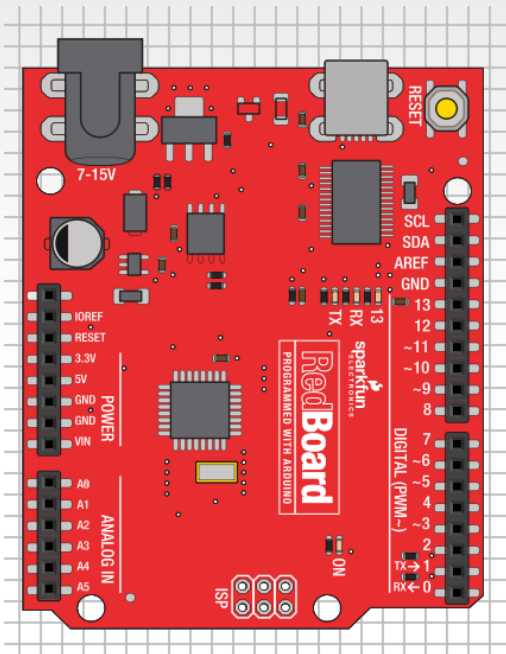# Getting Started

- **SW Installation:** Arduino (v.1.0+)

    Fritzing

    SIK Guide Code

    Drivers (FTDI)

- **Materials:**   SIK Guide

    Analog I/O, Digital I/O, Serial,
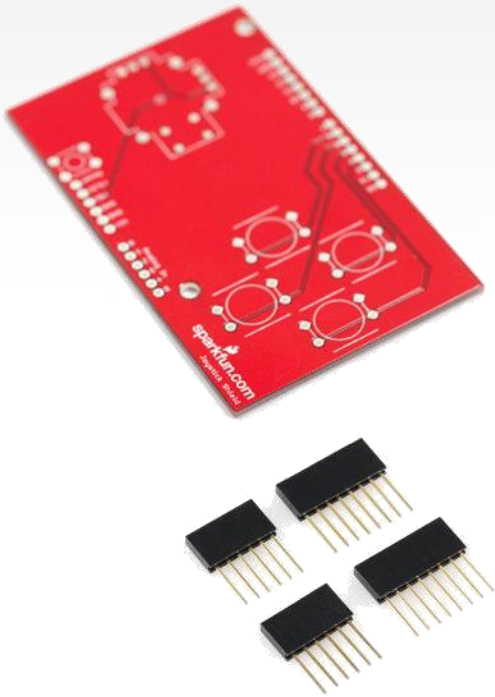   & Fritzing handouts

    Arduino CheatSheet

PWR IN

USB
(to Computer)

RESET

7-15V

SCL\SDA
(I2C Bus)

SCL
SDA
AREF
GND

IOREF
RESET
3.3V
5V
GND
GND
VIN

POWER

POWER
5V / 3.3V / GND

A0
A1
A2
A3
A4
A5

ANALOG IN

Analog
INPUTS

RedBoard
PROGRAMMED WITH ARDUINO

sparkfun
ELECTRONICS

TX
RX
13

13
12
~11
~10
~9
8

7
~6
~5
4
~3
2
TX→ 1
RX← 0

DIGITAL (PWM~)

Digital I\O
PWM(3, 5, 6, 9, 10, 11)

ON

ISP

PWR IN

USB
(to Computer)

RESET

SCL\SDA
(I2C Bus)

POWER
5V / 3.3V / GND

Digital I\O
PWM(3, 5, 6, 9, 10, 11)

Analog
INPUTS

Go ahead and plug your board in!

Arduino Shields

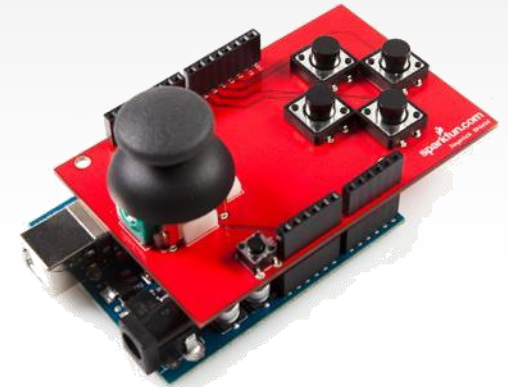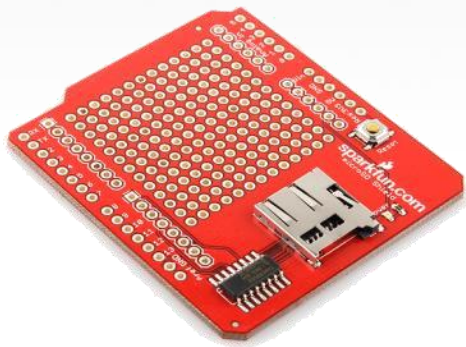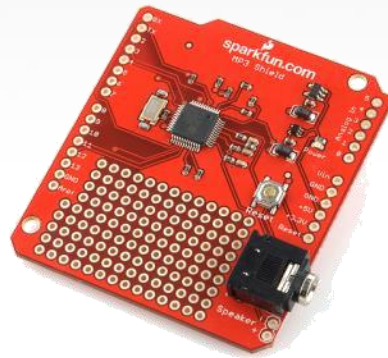PCB   Built Shield   Inserted Shield

Arduino Shields

Micro SD   MP3 Trigger   LCD