Project 1 Report : Circuit Schematic

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10kΩ Resistor

PS
ISP
Micro-controller
PB1
PB0
+5V
10 kΩ
SW1
Button
LED

VS POWER BAR
COLUMNS
0V POWER BAR
NO CONNECTION HERE

Capacitor

9V Battery Connector with 9V Battery

10kΩ Resistor

MICROCONTROLLER Back Front

Back Front

5V Regulator
This is front

PC

USB PORT

Programmer

10kΩ Resistor and Button +LED Front

(XCK/T0) PB0	1	40 PA0 (ADC0)
(T1) PB1	2	39 PA1 (ADC1)
(INT2/AIN0) PB2	3	38 PA2 (ADC2)
(OC0/AIN1) PB3	4	37 PA3 (ADC3)
(SS) PB4	5	36 PA4 (ADC4)
(MOSI) PB5	6	35 PA5 (ADC5)
(MISO) PB6	7	34 PA6 (ADC6)
(SCK) PB7	8	33 PA7 (ADC7)
RESET	9	32 AREF
VCC	10	31 GND
GND	11	30 AVCC
XTAL2	12	29 PC7 (TOSC2)
XTAL1	13	28 PC6 (TOSC1)
(RXD) PD0	14	27 PC5 (TDI)
(TXD) PD1	15	26 PC4 (TDO)
(INT0) PD2	16	25 PC3 (TMS)
(INT1) PD3	17	24 PC2 (TCK)
(OC1B) PD4	18	23 PC1 (SDA)
(OC1A) PD5	19	22 PC0 (SCL)
(ICP1) PD6	20	21 PD7 (OC2)

Back

1) MISO
2) SCK
3) RESET
4) VCC
5) MOSI
6) GND

XTAL2

8MHz

XTAL1
Unpolarized

If you're using Microchip Studio:

1. You need to access the Fuse settings in Device Programming menu;

2. Last item in the list -> LOW.SUT_CKSEL;

3. Last choice -> 'Ext. Crystal/Resonator High Freq.; Start-up time: 16K CK + 64 ms';

4. <u>DON'T CHANGE ANYTHING ELSE!</u>

5. Click program and close!