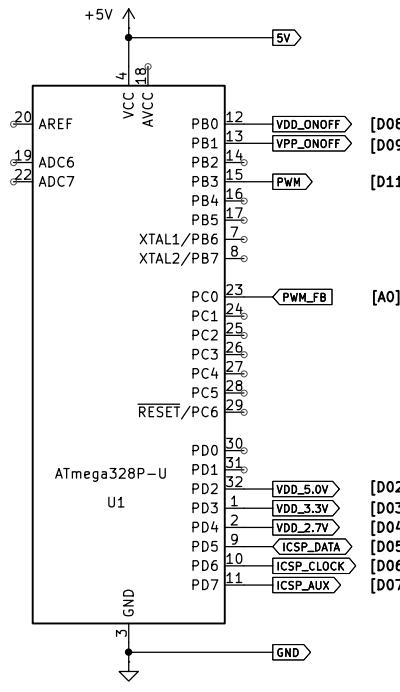
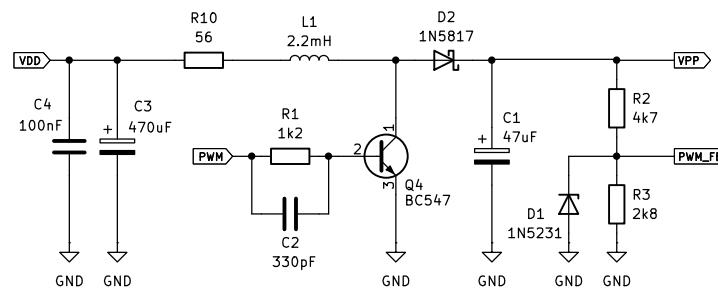


PicArd 0.41 – Hardware

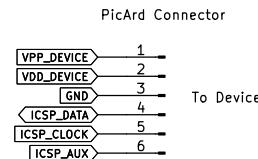
Arduino UNO R3 (ATMEGA328PU 32-lead TQFP)



DC/DC Boost



Connector



VPP and VDD control

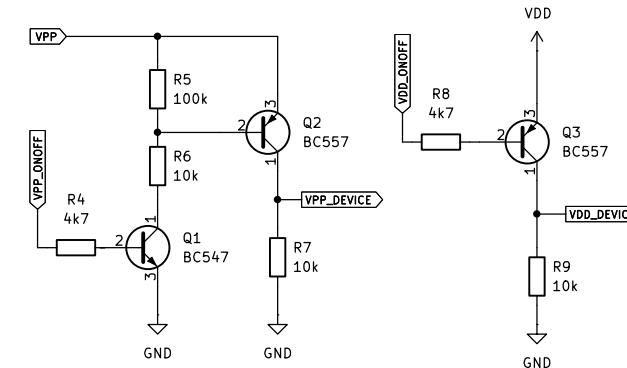
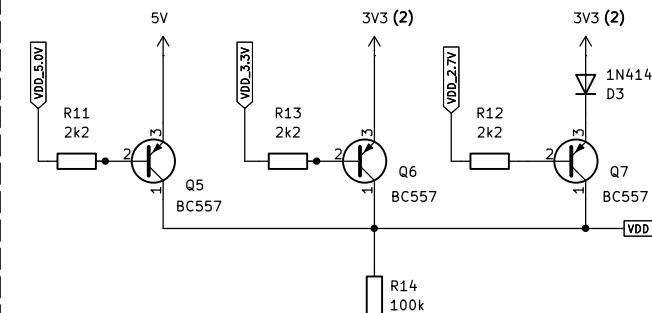


Table 1 – Labels Descriptions

Label	Description
5V	Arduino Uno R3 5V (from USB)
3V3	Positive 3.3V (from Arduino Uno)
PWM	Pulse with modulation to DC/DC Booster
PWM_FB	PWM voltage feedback
VDD_ONOFF	TURNS ON/OFF VDD to device
VPP_ONOFF	TURNS ON/OFF VPP to device
VDD_5.0V	Select/Unselect 5.0 as VDD
VDD_3.3V	Select/Unselect 3.3V as VDD
VDD_2.7V	Select/Unselect 2.7V as VDD
ICSP_DATA	In-circuit serial programming (ICSP) data pin
ICSP_CLOCK	ICSP clock pin
ICSP_AUX	ICSP for Low Voltage Programming (LVP)
VDD	Selected VDD
VDD_DEVICE	Device VDD Pin
VPP	Programming voltage
VPP_DEVICE	Device VPP Pin
GND	Ground

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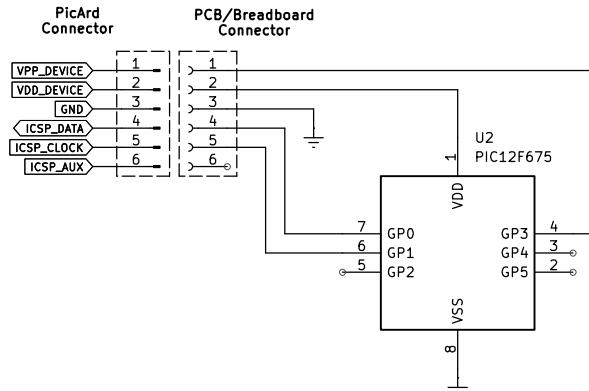
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PicArd 0.41 – Connection Examples

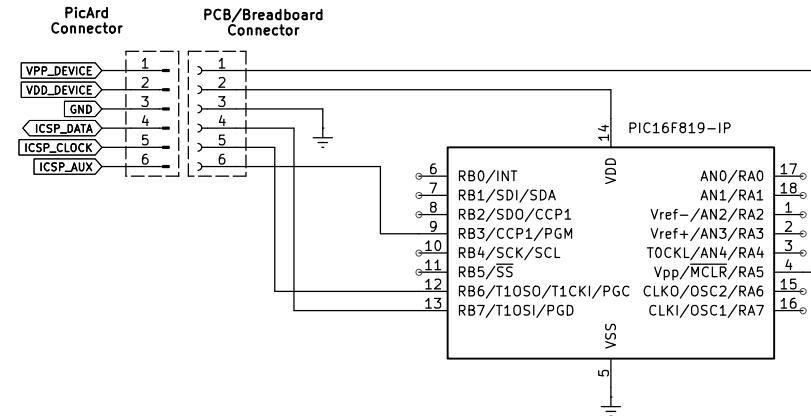
Example 1: PIC12F675 (PDIP, SOIC, DFN-S)



Notes:

- a) Connections according to "PIC12F629/675 Memory Programming Specification" (<https://ww1.microchip.com/downloads/en/DeviceDoc/41173c.pdf>);
- b) PIC12F675 can only be programmed via HVP, ICSP_AUX not used.

Example 2: PIC16F819 (DIP, SOIC)



Notes:

- a) Connections according to "PIC16F818/819 Memory Programming Specification" (<https://ww1.microchip.com/downloads/en/DeviceDoc/39603c.pdf>);
- b) PIC16F818/819 supports LVP and HVP modes. Selection is made via software.

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