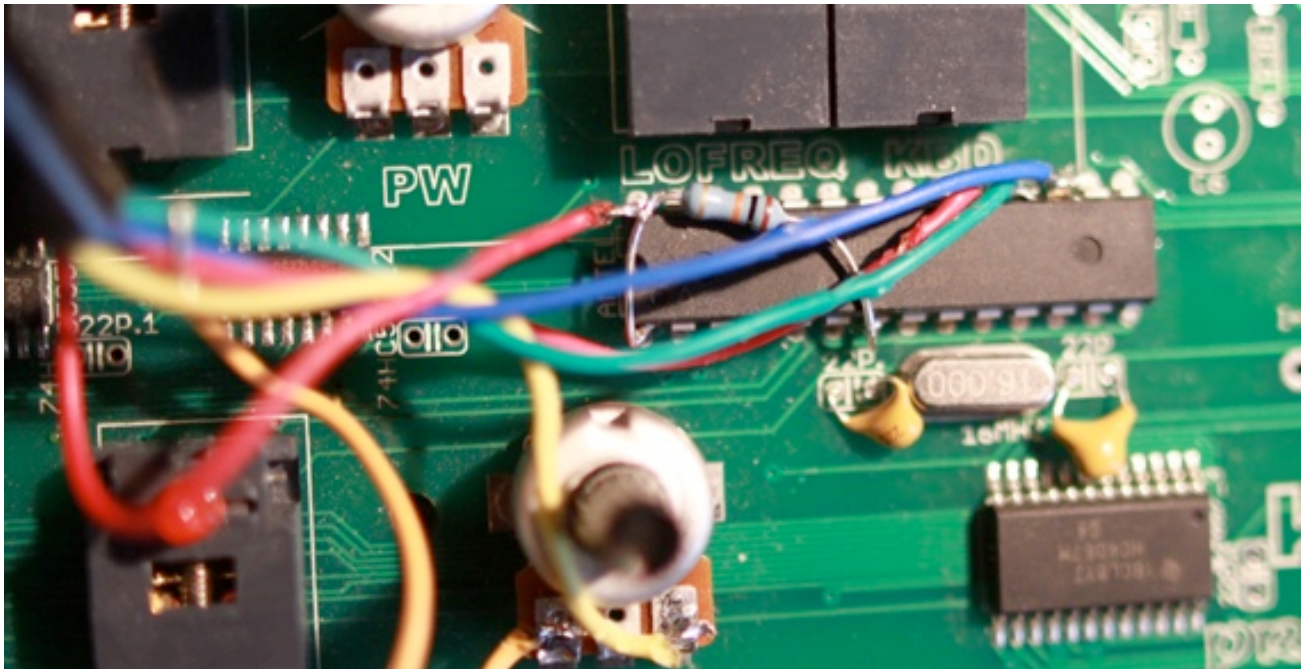
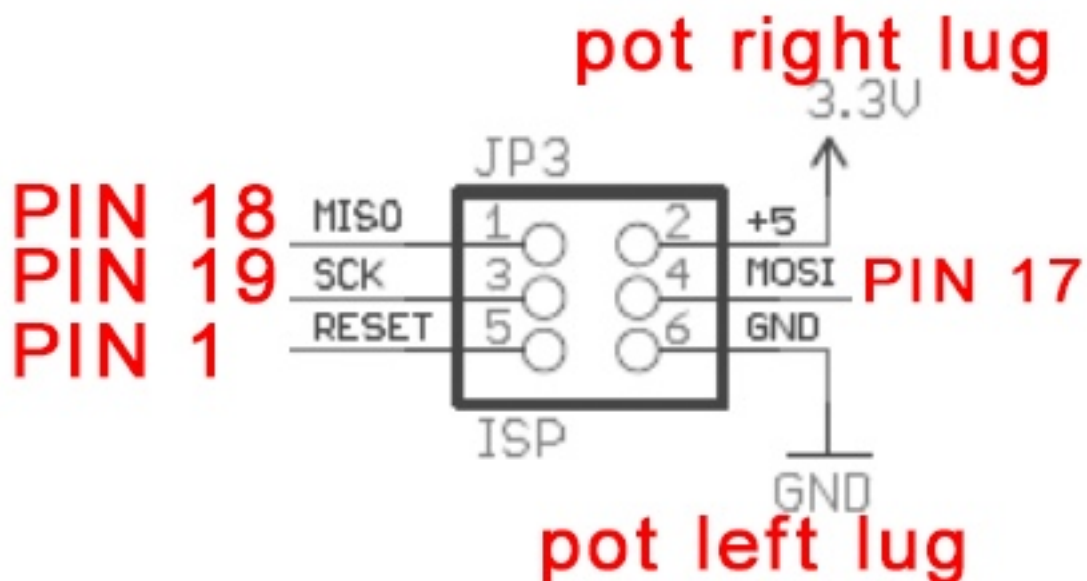


Professor In Circuit Programming

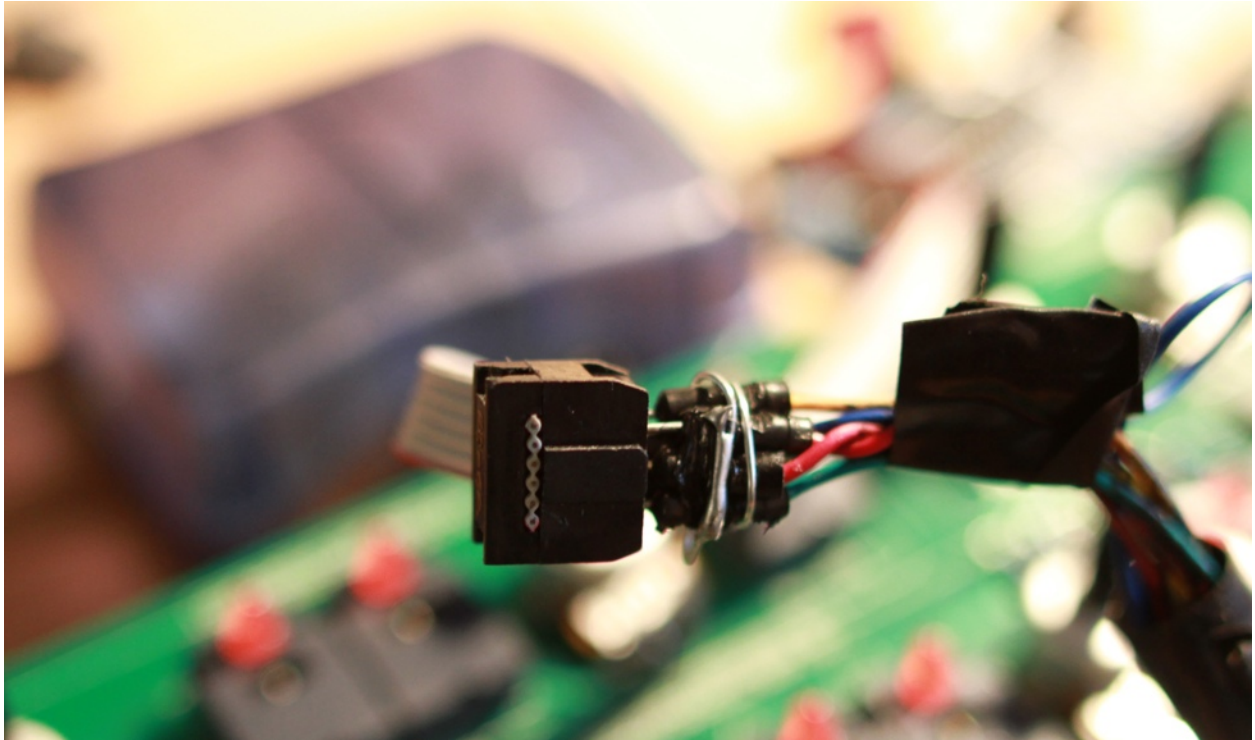


Unfortunately the micros for professor have been soldered to the PCB and there is no ISP header on the PCB so we have to solder the programming wires directly to the chip:

Following the below pinout, hook 6 wires between the AVRISP MKII port and Professor.



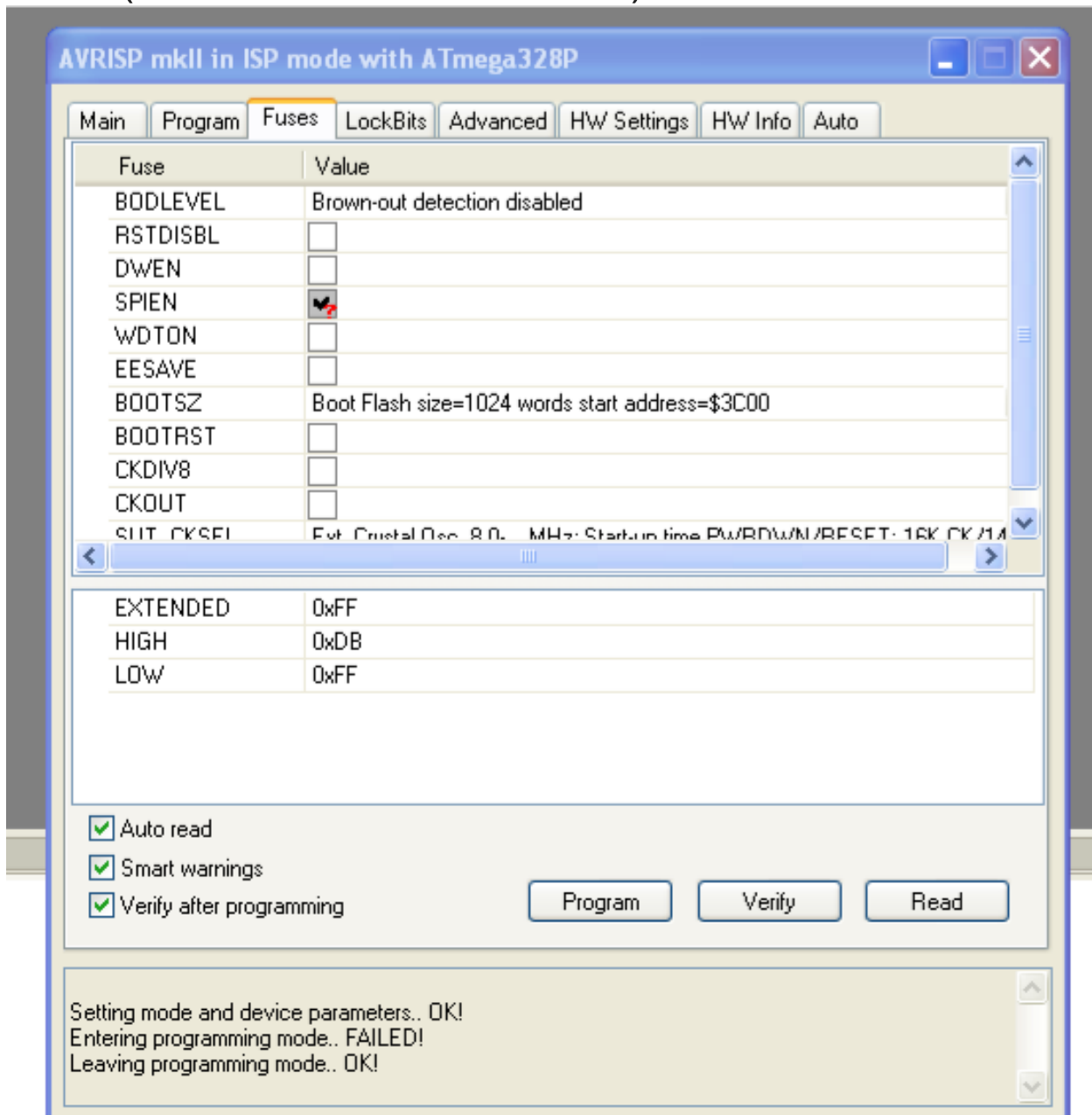
I used 6 solder-less breadboard leads and connected them directly into the female header of the AVRISP MK2 programmer, then I soldered the other ends directly to the ATMEL chip on the pcb.



HEX UPLOAD

We use AVR STUDIO 4 to burn the HEX using an AVRISP2 Usb programmer.

IMPORTANT: Fuse settings are as follows: 0xFF 0xDB 0xFF (see attached screen shot).



CONFIGURING PROFESSOR

Once the new firmware is uploaded, please use the software to upload the factory midi setup to the professor. Simply open the app, select POLYTECH in the midi out window and click **TRANSMIT**

Professor should blink it's leds randomly during the upload stage, you are done!

POLY-MOD
FREQ A PWA FILT
4 63 3 9 14
FILT ENV OSC B — DESTINATION —

OSCILLATOR A
FREQ — SHAPE — PW SYNC
88 15 20 58 17

MIXER
OSC A OSC B NOISE
102 60 89

FILTER
CUTOFF RESO ENV AMT KBD
85 106 114 110
ATTACK DECAY SUSTAIN RELEASE
104 105 113 109

LFO
SYNC RATE — SHAPE —
22 59 23 24 25

OSCILLATOR B
FREQ FINE — SHAPE — PW LOFREQ KBD
86 57 26 27 28 2 29 30

WHEEL-MOD
FREQ A B PWA PWB FILT
90 31 35 41 46 47
LFO NOISE — DESTINATION —

GLIDE 61 21 OFF ON LEGATO ON 53 62



AMPLIFIER
ATTACK DECAY SUSTAIN RELEASE
119 115 107 117
RELEASE VOLUME HOLD LEGATO
66 111 55 56

PRESET1 PRESET2 PRESET3 CHANNEL:

MIDI OUTPUT: [Port 1 Ploytec GmbH](#)

