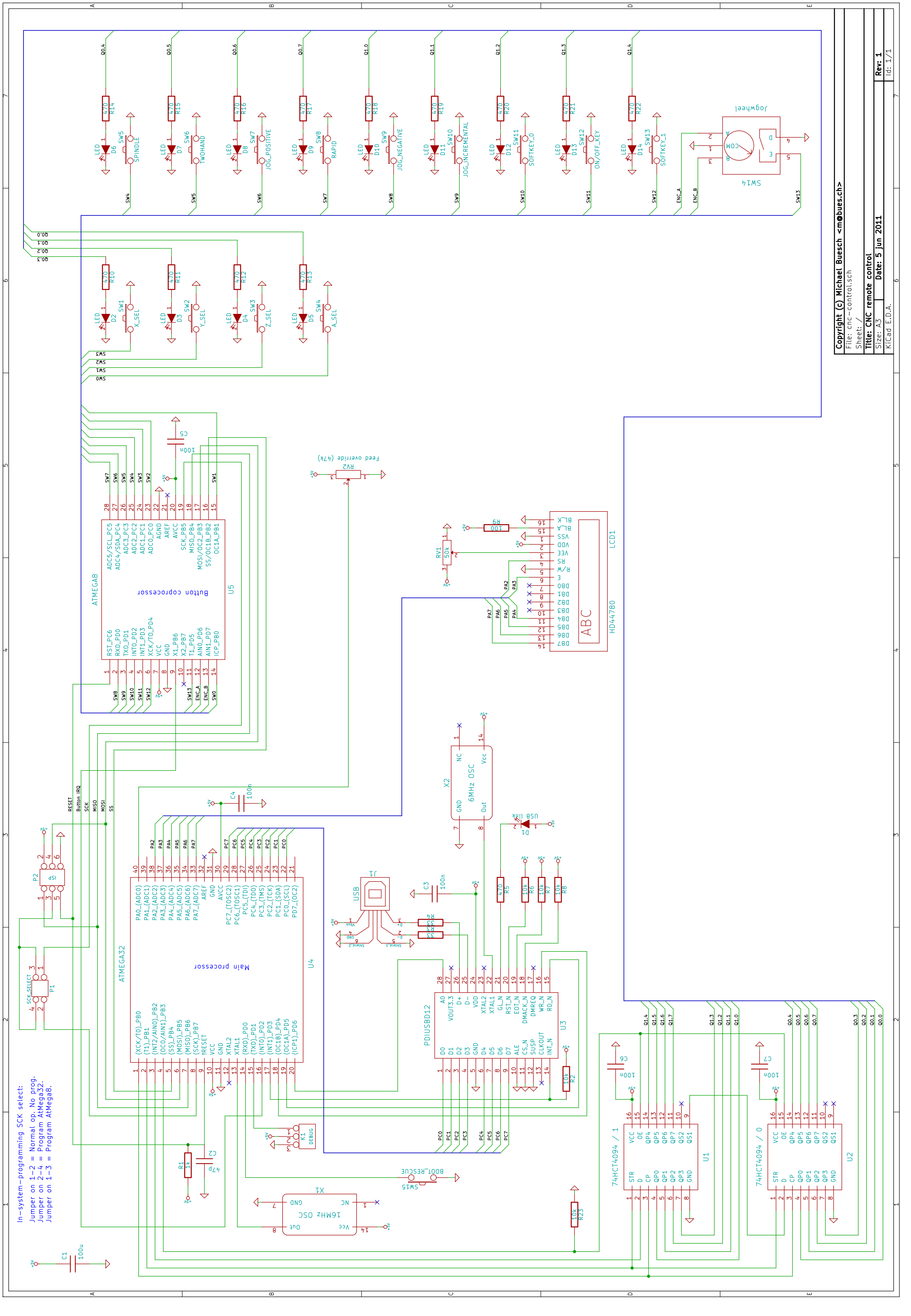
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File: cnc-control.sch
Sheet: /
Title: CNC remote control
Size: A3
Date: 5 jun 2011
Rev: 1
KiCad E.D.A.
Id: 1/1
Joywheel
SW14
COM
ENC_A
ENC_B
SW13
SPINDLE
TWOHAND
JOG_POSITIVE
RAPID
JOG_NEGATIVE
JOG_INCREMENTAL
SOFTKEY_0
ON/OFF_KEY
SOFTKEY_1
X_SEL
Y_SEL
Z_SEL
A_SEL
Q0.0
Q0.1
Q0.2
Q0.3
Q0.4
Q0.5
Q0.6
Q0.7
Q1.0
Q1.1
Q1.2
Q1.3
Q1.4
SW0
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
ATMEGA8
Button coprocessor
U5
ATMEGA32
Main processor
U4
PDIUSBD12
U3
74HCT4094 / 1
U1
74HCT4094 / 0
U2
LCD1
HD44780
ABC
Feed overrride (47k)
RV1
50k
R9
100
USB
J1
D1
USB link
X2
6MHz OSC
X1
16MHz OSC
BOOT_RESCUE
SW15
DEBUG
K1
ISP
P2
SCK_SELECT
P1
In-system-programming SCK select:
Jumper on 1-2 = Normal op. No prog.
Jumper on 2-4 = Program AtMega32.
Jumper on 1-3 = Program AtMega8.
RESET
Button !IRQ
SCK
MISO
MOSI
SS
C1
100u
C2
47p
R1
1k
C3
100n
C4
100n
C5
100n
C6
100n
C7
100n
R2
10k
R23
10k
R5
470
R6
10k
R7
10k
R8
10k
R10
470
R11
470
R12
470
R13
470
R14
470
R15
470
R16
470
R17
470
R18
470
R19
470
R20
470
R21
470
R22
470
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13