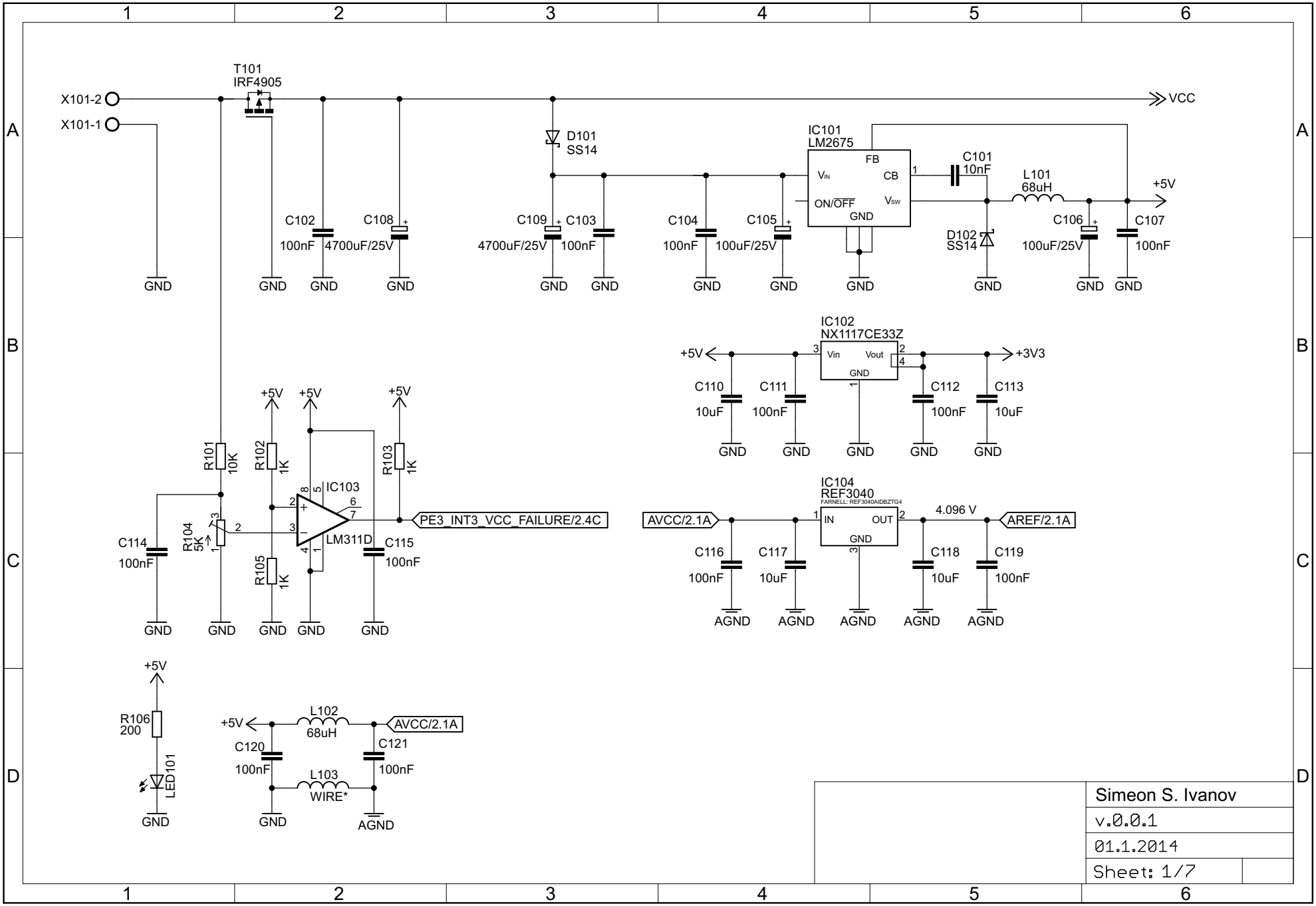
T101
IRF4905
X101-2
X101-1
VCC
D101
SS14
IC101
LM2675
FB
VIN
CB
ON/OFF
VSW
GND
C101
10nF
L101
68uH
+5V
D102
SS14
C102
100nF
C108
4700uF/25V
C109
4700uF/25V
C103
100nF
C104
100nF
C105
100uF/25V
C106
100uF/25V
C107
100nF
IC102
NX1117CE33Z
Vin
Vout
+3V3
C110
10uF
C111
100nF
C112
100nF
C113
10uF
R101
10K
R102
1K
R103
1K
IC103
LM311D
R104
5K
R105
1K
C114
100nF
C115
100nF
PE3_INT3_VCC_FAILURE/2.4C
IC104
REF3040
FARNELL: REF3040AIDBZTG4
AVCC/2.1A
4.096 V
AREF/2.1A
C116
100nF
C117
10uF
C118
10uF
C119
100nF
AGND
R106
200
LED101
L102
68uH
C120
100nF
C121
100nF
L103
WIRE*
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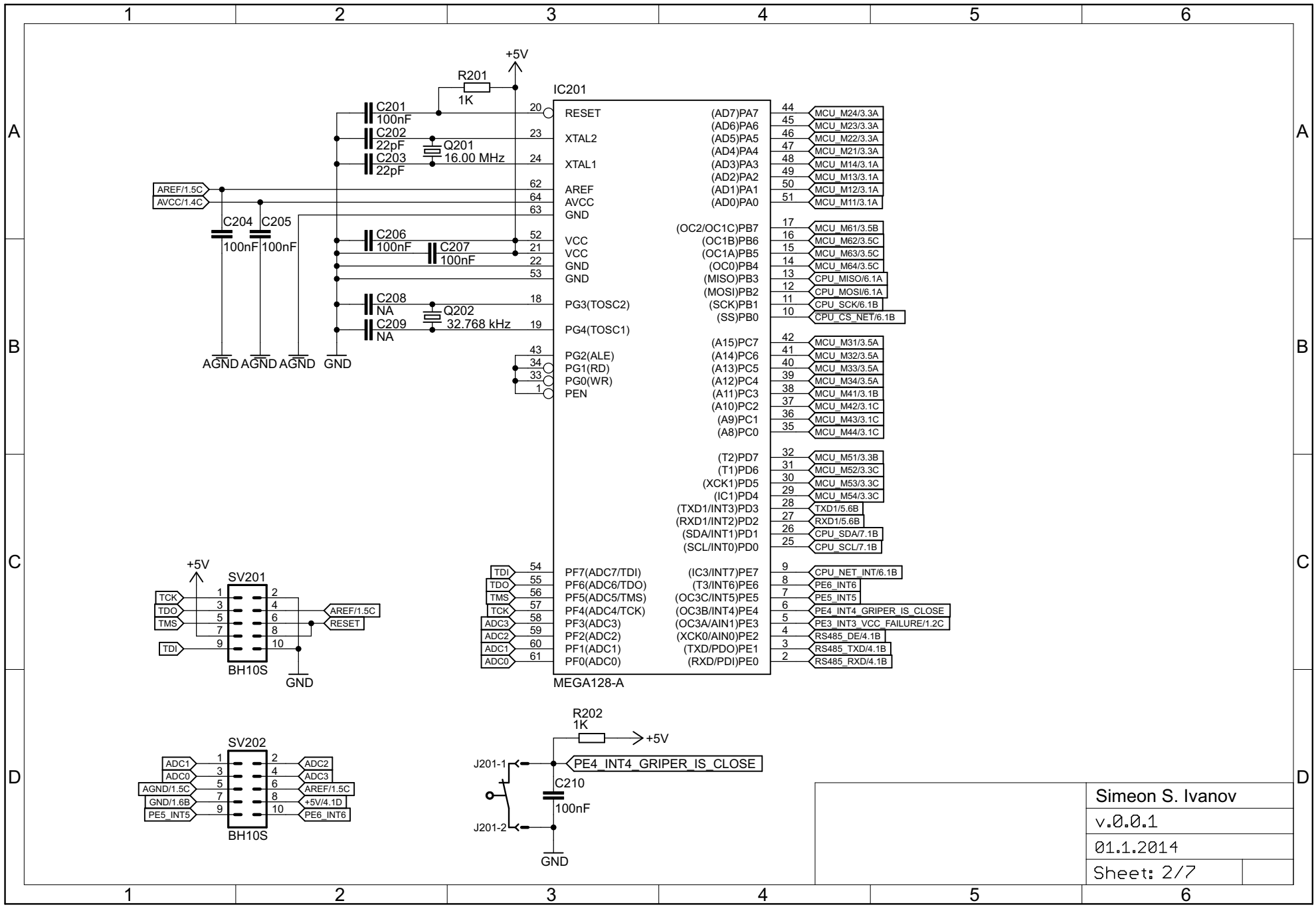
+5V
R201
1K
IC201
C201
100nF
C202
22pF
C203
22pF
Q201
16.00 MHz
AREF/1.5C
AVCC/1.4C
C204
C205
100nF
100nF
C206
100nF
C207
100nF
C208
NA
C209
NA
Q202
32.768 kHz
AGND
AGND
AGND
GND
RESET
XTAL2
XTAL1
AREF
AVCC
GND
VCC
VCC
GND
GND
PG3(TOSC2)
PG4(TOSC1)
PG2(ALE)
PG1(RD)
PG0(WR)
PEN
(AD7)PA7
(AD6)PA6
(AD5)PA5
(AD4)PA4
(AD3)PA3
(AD2)PA2
(AD1)PA1
(AD0)PA0
(OC2/OC1C)PB7
(OC1B)PB6
(OC1A)PB5
(OC0)PB4
(MISO)PB3
(MOSI)PB2
(SCK)PB1
(SS)PB0
(A15)PC7
(A14)PC6
(A13)PC5
(A12)PC4
(A11)PC3
(A10)PC2
(A9)PC1
(A8)PC0
(T2)PD7
(T1)PD6
(XCK1)PD5
(IC1)PD4
(TXD1/INT3)PD3
(RXD1/INT2)PD2
(SDA/INT1)PD1
(SCL/INT0)PD0
PF7(ADC7/TDI)
PF6(ADC6/TDO)
PF5(ADC5/TMS)
PF4(ADC4/TCK)
PF3(ADC3)
PF2(ADC2)
PF1(ADC1)
PF0(ADC0)
(IC3/INT7)PE7
(T3/INT6)PE6
(OC3C/INT5)PE5
(OC3B/INT4)PE4
(OC3A/AIN1)PE3
(XCK0/AIN0)PE2
(TXD/PDO)PE1
(RXD/PDI)PE0
MCU_M24/3.3A
MCU_M23/3.3A
MCU_M22/3.3A
MCU_M21/3.3A
MCU_M14/3.1A
MCU_M13/3.1A
MCU_M12/3.1A
MCU_M11/3.1A
MCU_M61/3.5B
MCU_M62/3.5C
MCU_M63/3.5C
MCU_M64/3.5C
CPU_MISO/6.1A
CPU_MOSI/6.1A
CPU_SCK/6.1B
CPU_CS_NET/6.1B
MCU_M31/3.5A
MCU_M32/3.5A
MCU_M33/3.5A
MCU_M34/3.5A
MCU_M41/3.1B
MCU_M42/3.1C
MCU_M43/3.1C
MCU_M44/3.1C
MCU_M51/3.3B
MCU_M52/3.3C
MCU_M53/3.3C
MCU_M54/3.3C
TXD1/5.6B
RXD1/5.6B
CPU_SDA/7.1B
CPU_SCL/7.1B
CPU_NET_INT/6.1B
PE6_INT6
PE5_INT5
PE4_INT4_GRIPER_IS_CLOSE
PE3_INT3_VCC_FAILURE/1.2C
RS485_DE/4.1B
RS485_TXD/4.1B
RS485_RXD/4.1B
MEGA128-A
TDI
TDO
TMS
TCK
ADC3
ADC2
ADC1
ADC0
+5V
SV201
TCK
TDO
TMS
TDI
AREF/1.5C
RESET
BH10S
GND
SV202
ADC1
ADC0
AGND/1.5C
GND/1.6B
PE5_INT5
ADC2
ADC3
AREF/1.5C
+5V/4.1D
PE6_INT6
BH10S
R202
1K
+5V
PE4_INT4_GRIPER_IS_CLOSE
J201-1
J201-2
C210
100nF
GND
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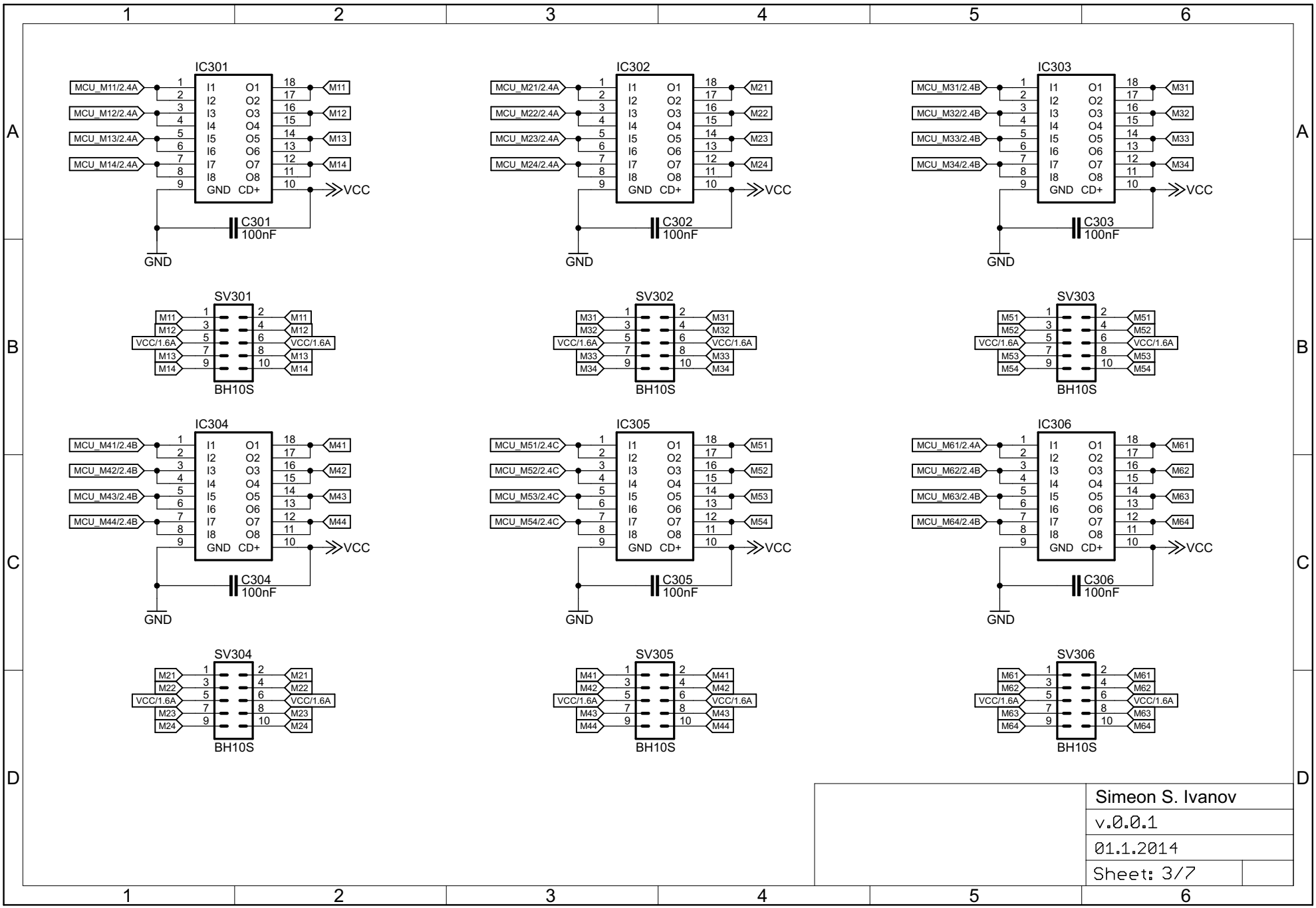
IC301
MCU_M11/2.4A
MCU_M12/2.4A
MCU_M13/2.4A
MCU_M14/2.4A
I1 I2 I3 I4 I5 I6 I7 I8
O1 O2 O3 O4 O5 O6 O7 O8
GND CD+
M11 M12 M13 M14
VCC
C301
100nF
GND
IC302
MCU_M21/2.4A
MCU_M22/2.4A
MCU_M23/2.4A
MCU_M24/2.4A
M21 M22 M23 M24
VCC
C302
100nF
GND
IC303
MCU_M31/2.4B
MCU_M32/2.4B
MCU_M33/2.4B
MCU_M34/2.4B
M31 M32 M33 M34
VCC
C303
100nF
GND
SV301
M11 M12 VCC/1.6A M13 M14
BH10S
SV302
M31 M32 VCC/1.6A M33 M34
BH10S
SV303
M51 M52 VCC/1.6A M53 M54
BH10S
IC304
MCU_M41/2.4B
MCU_M42/2.4B
MCU_M43/2.4B
MCU_M44/2.4B
M41 M42 M43 M44
VCC
C304
100nF
GND
IC305
MCU_M51/2.4C
MCU_M52/2.4C
MCU_M53/2.4C
MCU_M54/2.4C
M51 M52 M53 M54
VCC
C305
100nF
GND
IC306
MCU_M61/2.4A
MCU_M62/2.4B
MCU_M63/2.4B
MCU_M64/2.4B
M61 M62 M63 M64
VCC
C306
100nF
GND
SV304
M21 M22 VCC/1.6A M23 M24
BH10S
SV305
M41 M42 VCC/1.6A M43 M44
BH10S
SV306
M61 M62 VCC/1.6A M63 M64
BH10S
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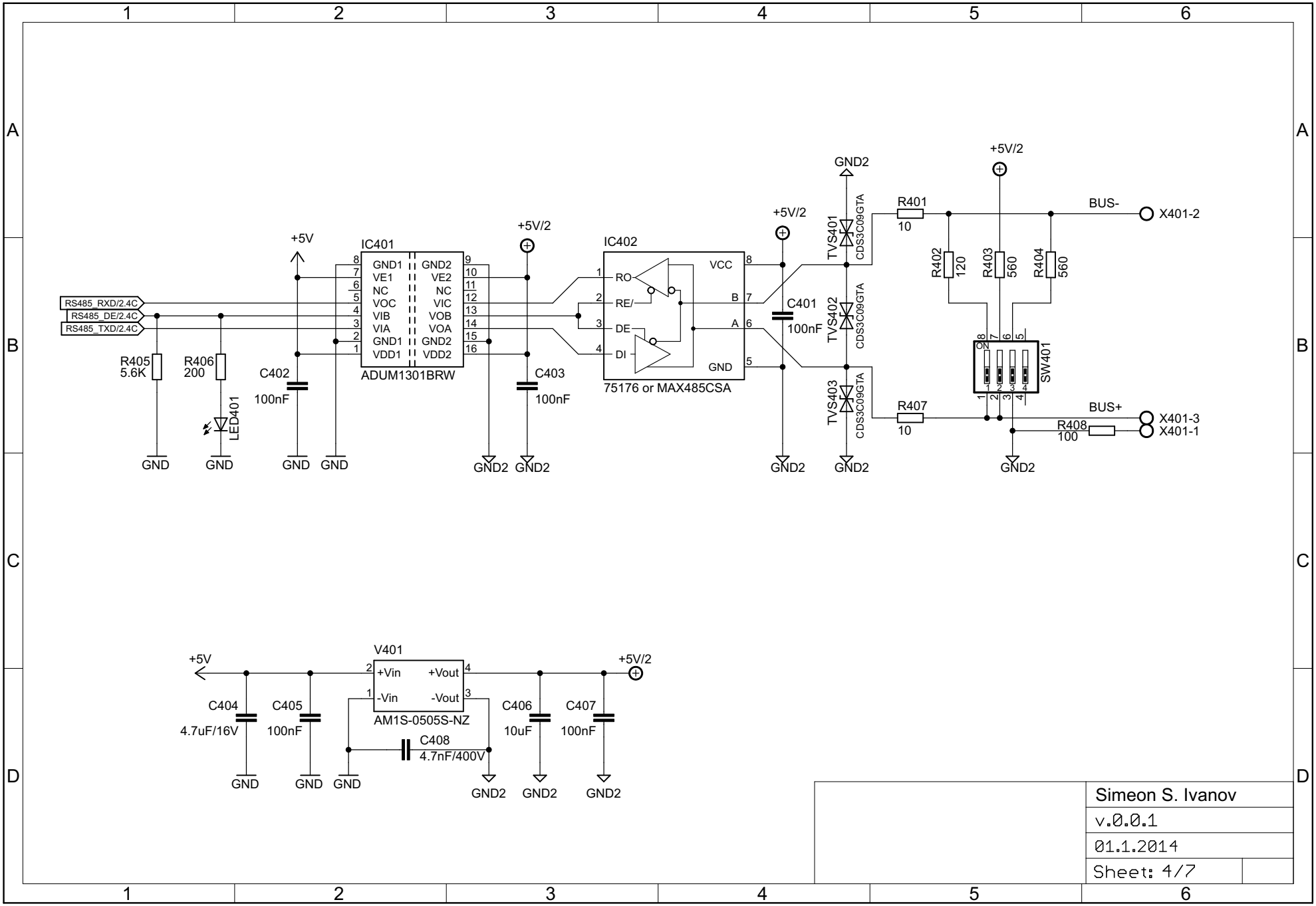
RS485_RXD/2.4C
RS485_DE/2.4C
RS485_TXD/2.4C
R405
5.6K
R406
200
LED401
C402
100nF
+5V
IC401
GND1
VE1
NC
VOC
VIB
VIA
GND1
VDD1
GND2
VE2
NC
VIC
VOB
VOA
GND2
VDD2
ADUM1301BRW
+5V/2
C403
100nF
IC402
RO
RE/
DE
DI
VCC
B
A
GND
75176 or MAX485CSA
C401
100nF
GND2
TVS401
TVS402
TVS403
CDS3C09GTA
R401
10
R402
120
R403
560
R404
560
BUS-
X401-2
SW401
R407
10
BUS+
R408
100
X401-3
X401-1
V401
+Vin
-Vin
+Vout
-Vout
AM1S-0505S-NZ
C404
4.7uF/16V
C405
100nF
C406
10uF
C407
100nF
C408
4.7nF/400V
GND
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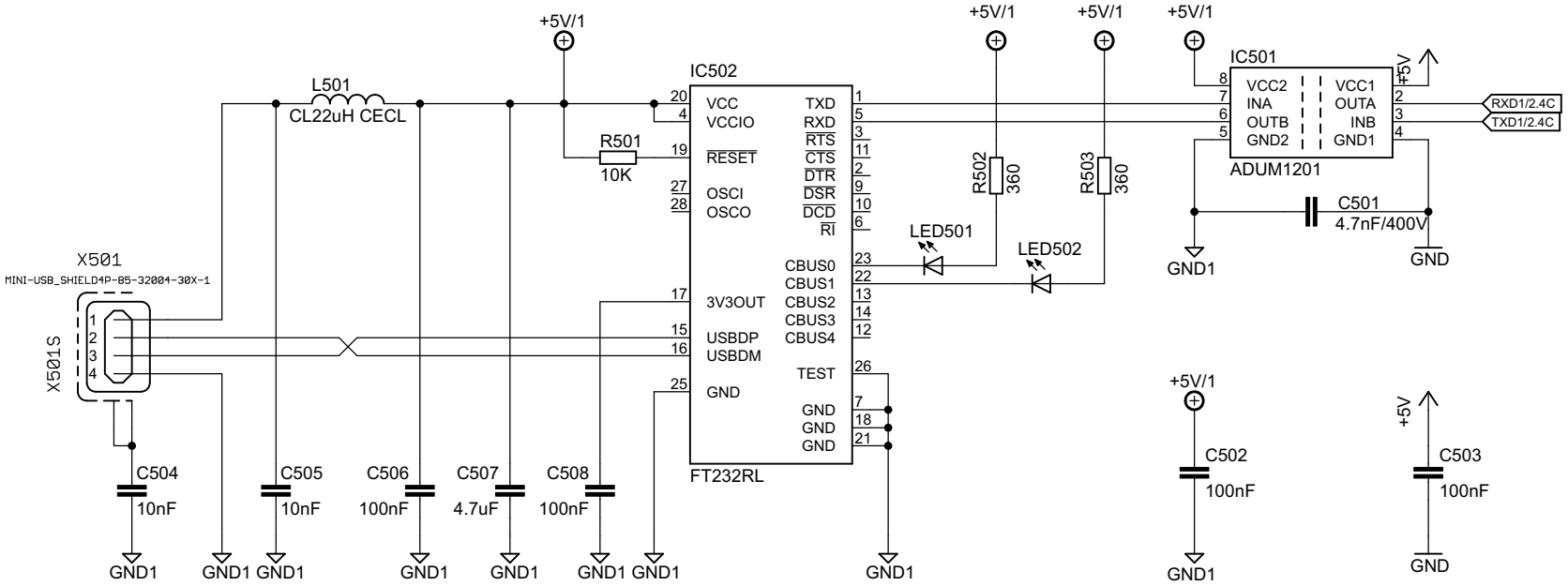

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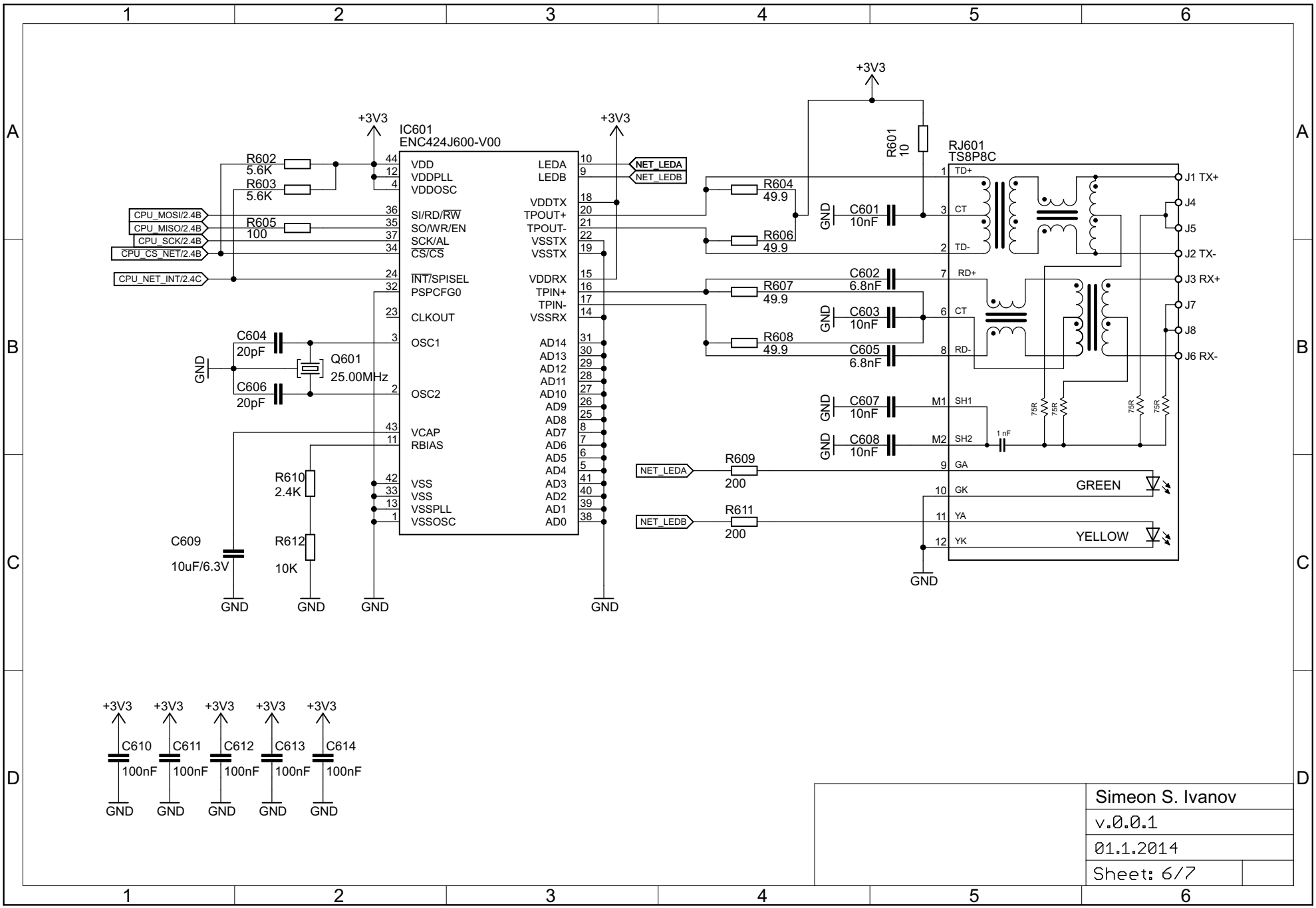
IC601
ENC424J600-V00
RJ601
TS8P8C
+3V3
GND
R601 10
R602 5.6K
R603 5.6K
R604 49.9
R605 100
R606 49.9
R607 49.9
R608 49.9
R609 200
R610 2.4K
R611 200
R612 10K
C601 10nF
C602 6.8nF
C603 10nF
C604 20pF
C605 6.8nF
C606 20pF
C607 10nF
C608 10nF
C609 10uF/6.3V
C610 100nF
C611 100nF
C612 100nF
C613 100nF
C614 100nF
Q601 25.00MHz
1 nF
75R
CPU_MOSI/2.4B
CPU_MISO/2.4B
CPU_SCK/2.4B
CPU_CS_NET/2.4B
CPU_NET_INT/2.4C
NET_LEDA
NET_LEDB
VDD
VDDPLL
VDDOSC
SI/RD/RW
SO/WR/EN
SCK/AL
CS/CS
INT/SPISEL
PSPCFG0
CLKOUT
OSC1
OSC2
VCAP
RBIAS
VSS
VSS
VSSPLL
VSSOSC
LEDA
LEDB
VDDTX
TPOUT+
TPOUT-
VSSTX
VSSTX
VDDRX
TPIN+
TPIN-
VSSRX
AD14
AD13
AD12
AD11
AD10
AD9
AD8
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
TD+
CT
TD-
RD+
CT
RD-
SH1
SH2
GA
GK
YA
YK
M1
M2
J1 TX+
J4
J5
J2 TX-
J3 RX+
J7
J8
J6 RX-
GREEN
YELLOW
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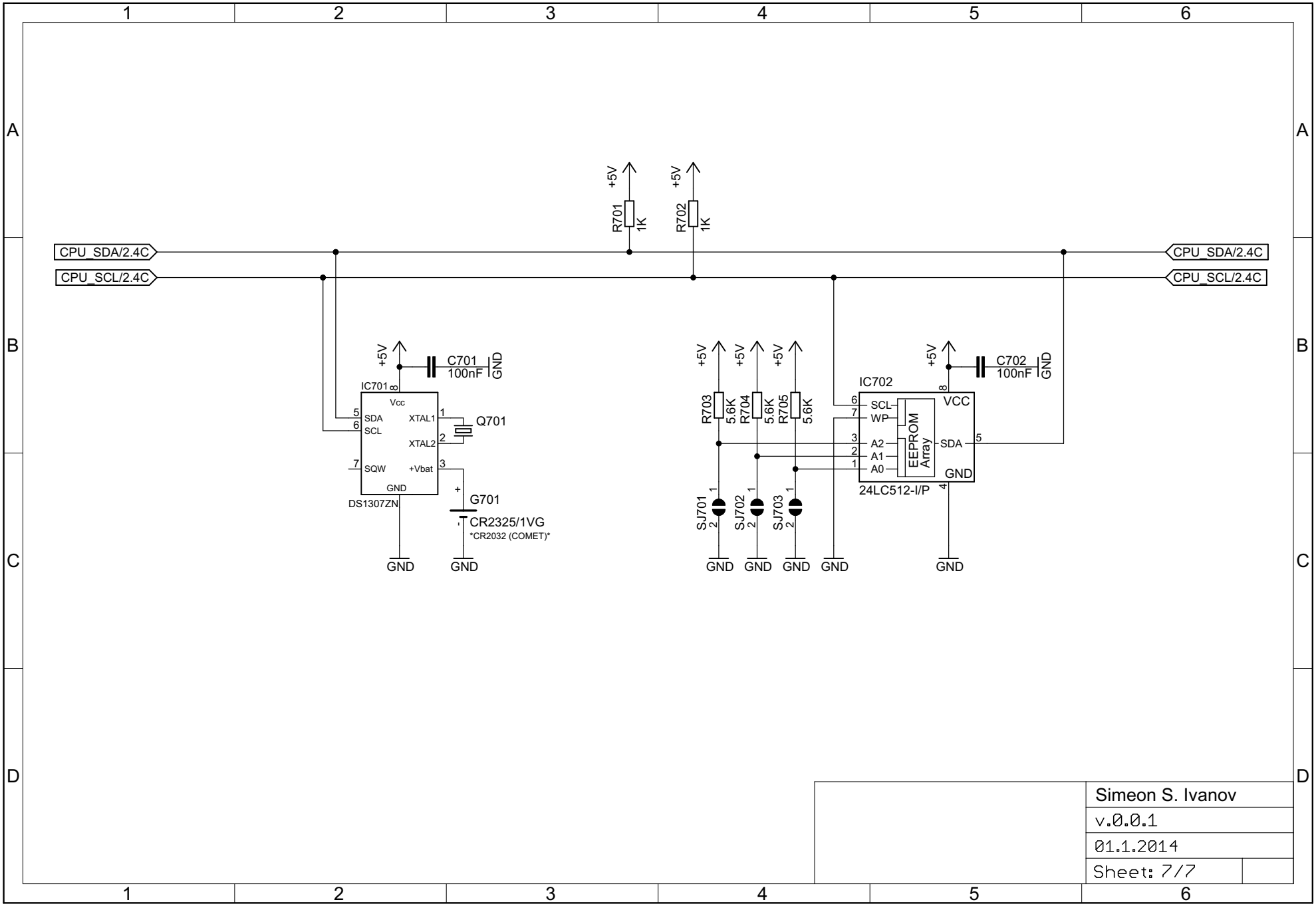
1
2
3
4
5
6
A
B
C
D
+5V
R701
1K
R702
1K
CPU_SDA/2.4C
CPU_SCL/2.4C
CPU_SDA/2.4C
CPU_SCL/2.4C
C701
100nF
GND
IC701
Vcc
SDA
SCL
SQW
XTAL1
XTAL2
+Vbat
GND
DS1307ZN
Q701
G701
CR2325/1VG
CR2032 (COMET)
R703
5.6K
R704
5.6K
R705
5.6K
SJ701
SJ702
SJ703
IC702
SCL
WP
A2
A1
A0
VCC
SDA
GND
EEPROM
Array
24LC512-I/P
C702
100nF
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