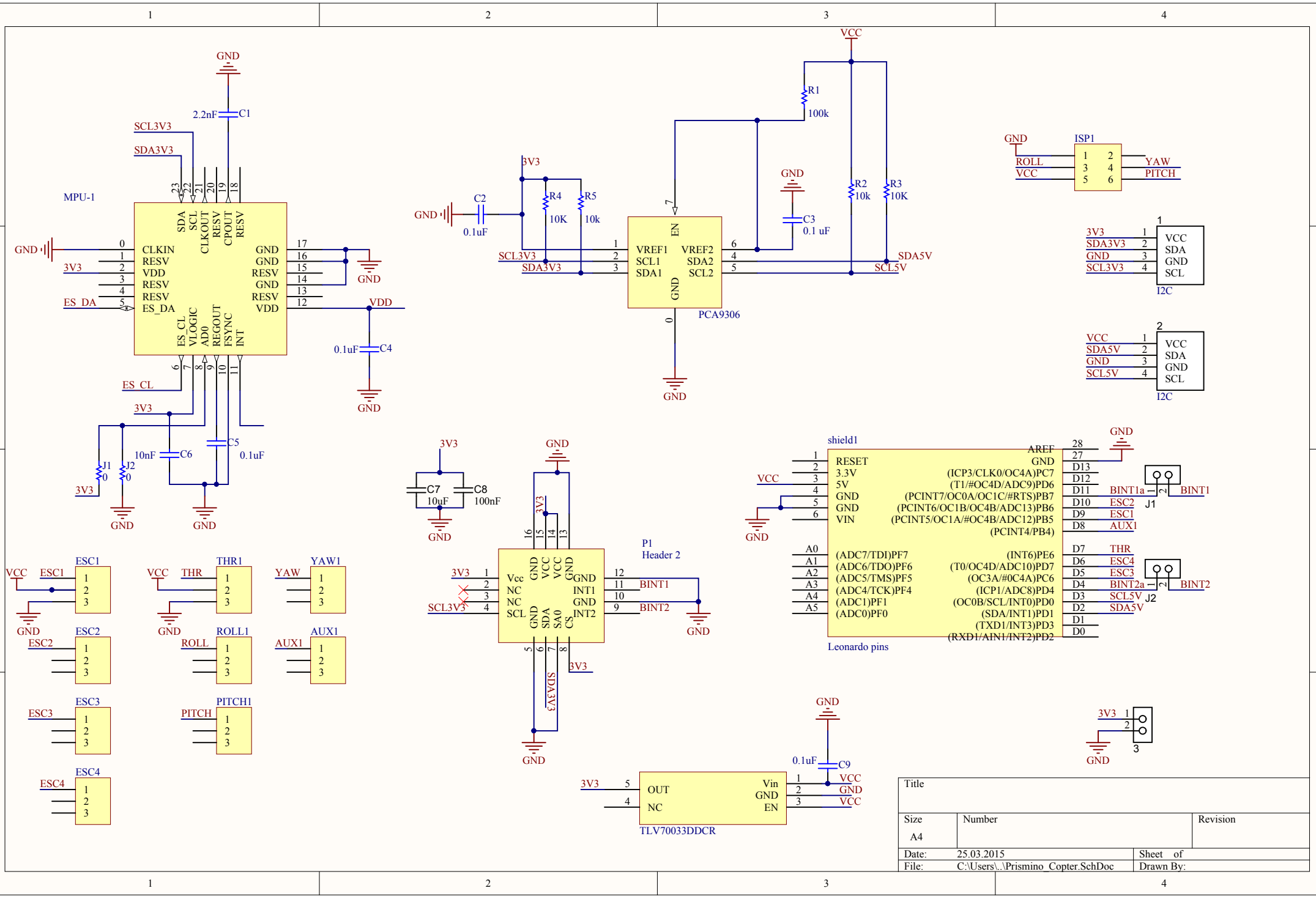
MPU-1
2.2nF C1
SCL3V3
SDA3V3
ES_DA
ES_CL
10nF C6
0.1uF C5
0.1uF C4
J1 0
J2 0
PCA9306
R1 100k
R2 10k
R3 10K
R4 10K
R5 10k
C2 0.1uF
C3 0.1 uF
SDA5V
SCL5V
ISP1
ROLL
YAW
PITCH
I2C
C7 10uF
C8 100nF
P1
Header 2
BINT1
BINT2
shield1
Leonardo pins
BINT1a
BINT2a
SCL5V
SDA5V
ESC1
ESC2
ESC3
ESC4
THR1
ROLL1
PITCH1
YAW1
AUX1
C9 0.1uF
TLV70033DDCR
Title
Size A4
Number
Revision
Date: 25.03.2015
Sheet of
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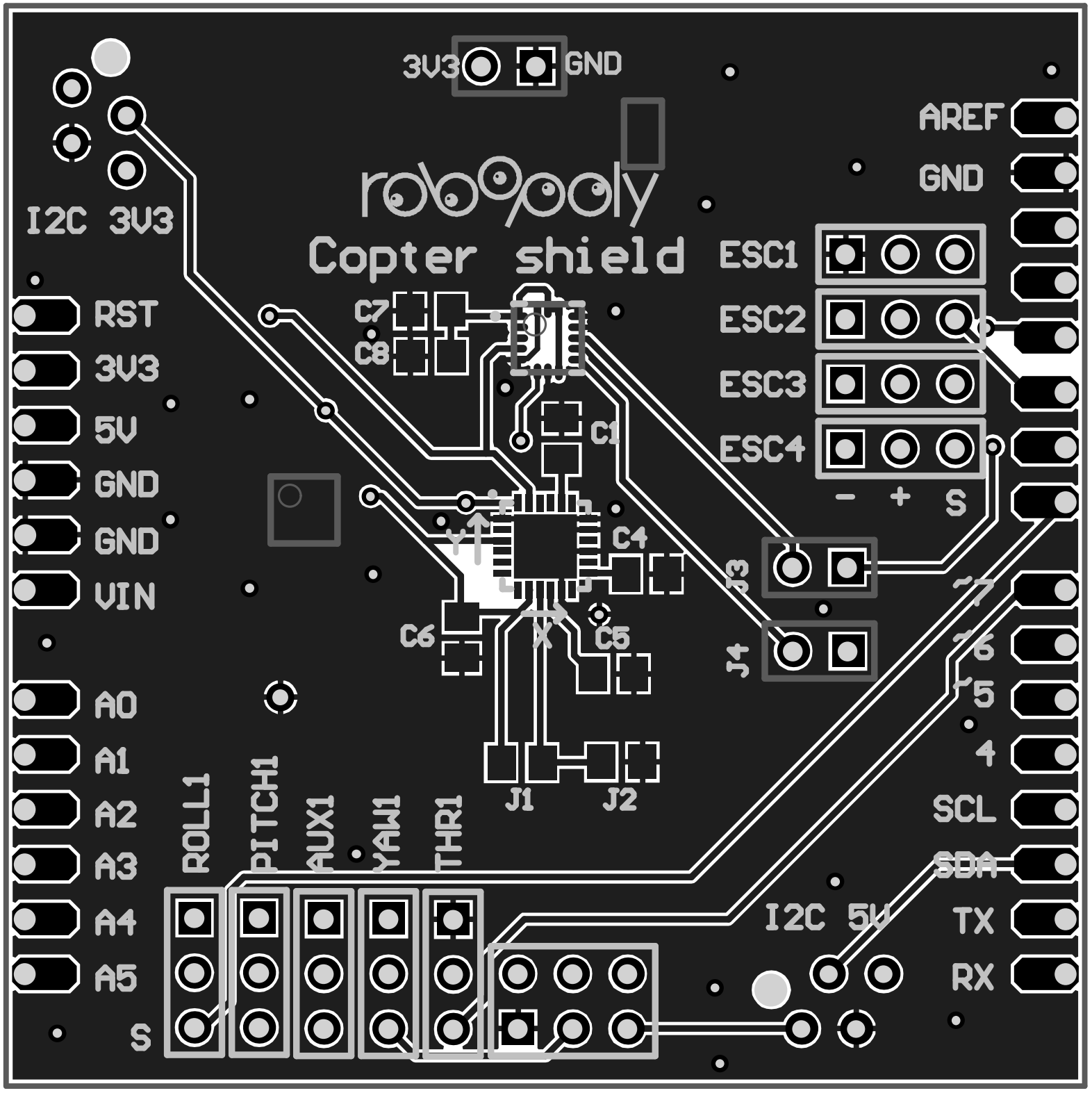
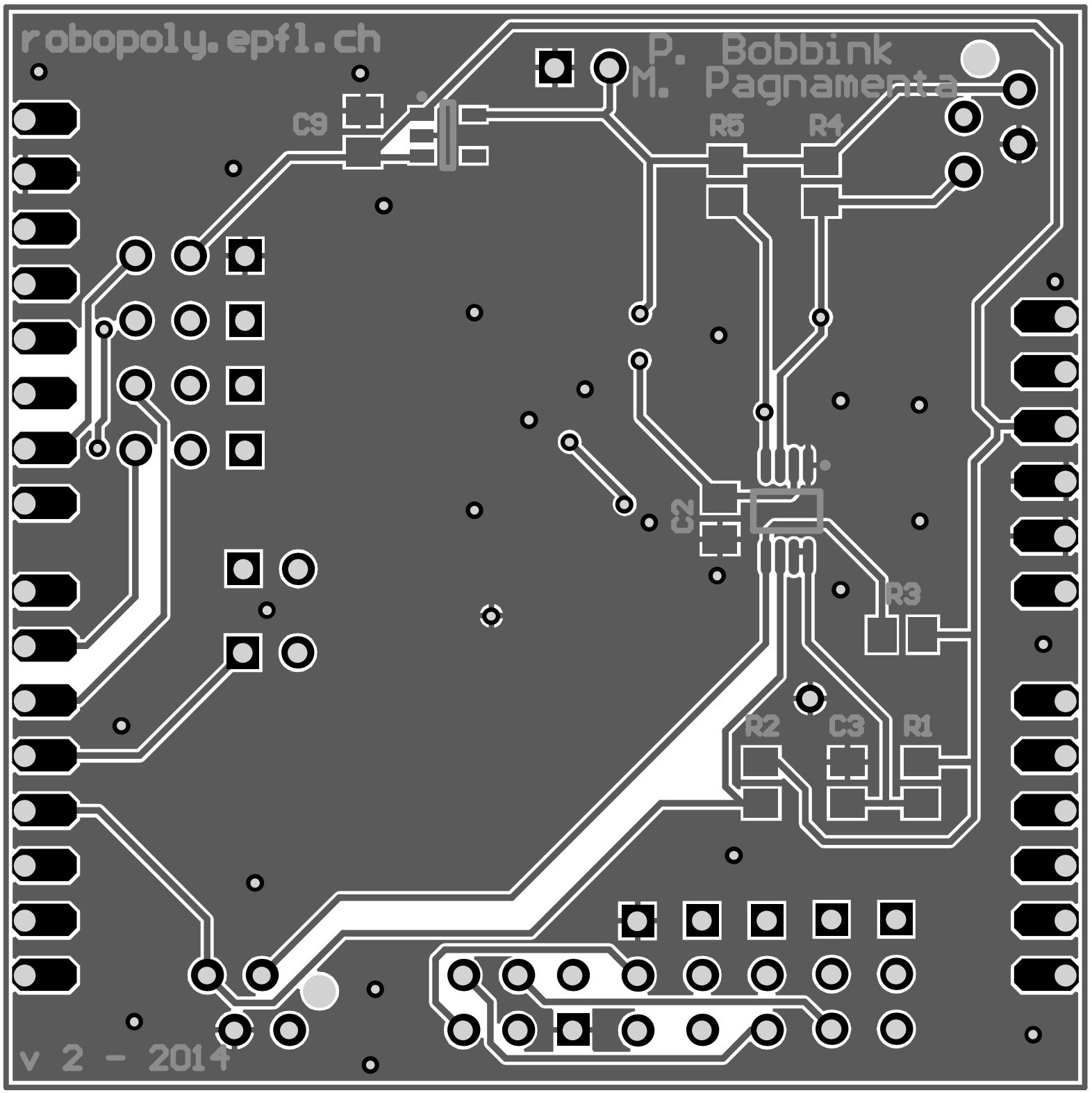
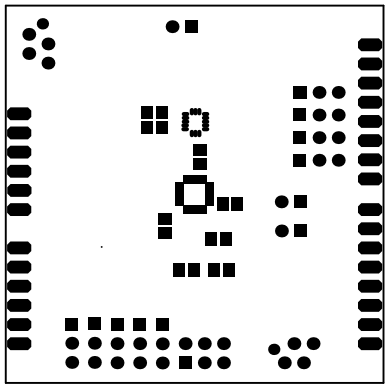
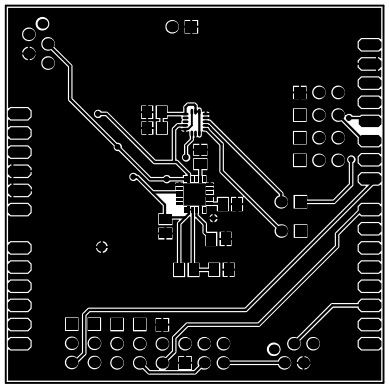
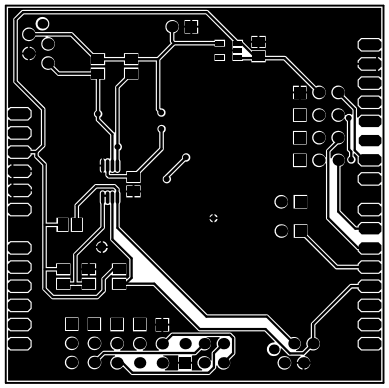
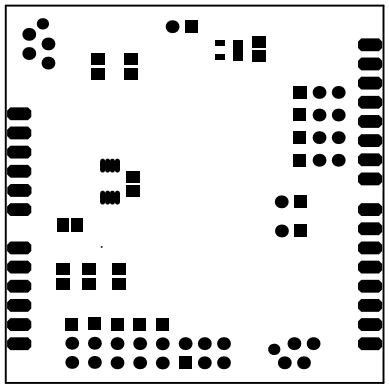
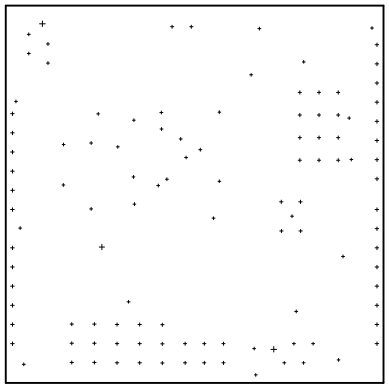
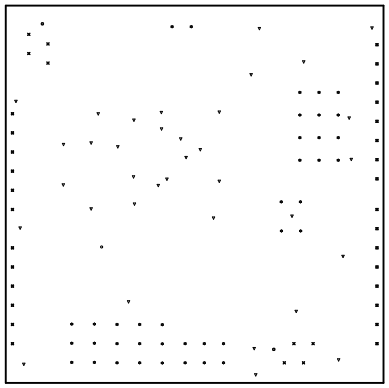
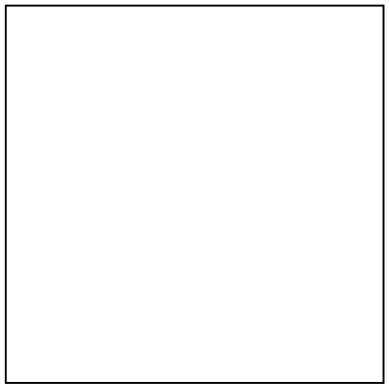
Drawn By:


3V3
GND
AREF
GND
I2C 3V3
robopoly
Copter shield
ESC1
ESC2
ESC3
ESC4
- + S
RST
3V3
5V
GND
GND
VIN
C7
C8
C1
C4
C6
C5
J3
J4
~7
6
5
4
SCL
SDA
TX
RX
A0
A1
A2
A3
A4
A5
ROLL1
PITCH1
AUX1
YAW1
THR1
J1
J2
I2C 5V
S


robopoly.epfl.ch
P. Bobbink
M. Pagnamenta
C9
R5
R4
R3
R2
C3
R1
v 2 - 2014

Quantity	Comment	LibRef	Designator	Description	Footprint
2	I2C	Micromatch-I2C	1, 2	Micromatch I2C Connector	TYCO/215079-4
3	Header 2	Header 2	3, J1, J2	Header, 2-Pin	HEADER1x2
9	Header 3	Header 3	AUX1, ESC1, ESC2, ESC3, ESC4, PITCH1, ROLL1, THR1, YAW1	Header, 3-Pin	HDR1X3
7	C0805	C0805	C1, C2, C3, C4, C5, C6, C9	Ceramic Chip Capacitor - Standard	MELF-R2012-0805
2	C	C	C7, C8	Capacitor	C/0805
1	Header 3X2	Header 3X2	ISP1	Header, 3-Pin, Dual row	HDR2X3
2	resistor	resistor	J1, J2	Resistor	MELF-R2012-0805
1	9-axis	MPU-9150	MPU-1	9-axis sensor (gyroscope, accelerometre, magnétomètre)	MPU-9150
1	Header 2	Barometer LPS331AP	P1	Header, 2-Pin	HCLGA-16L
1	PCA9306	Component_1_1	PCA1	I^2C shifting voltage	TSOP65P490X110-8N
5	Res1	Res1	R1, R2, R3, R4, R5	Resistor	MELF-R2012-0805
1	Leonardo pins	Leonardo pins	shield1		Leonardo pins
1	TLV70033DDCR	TLV700xx	TLV1	Header, 2-Pin	TLV70033DDCR