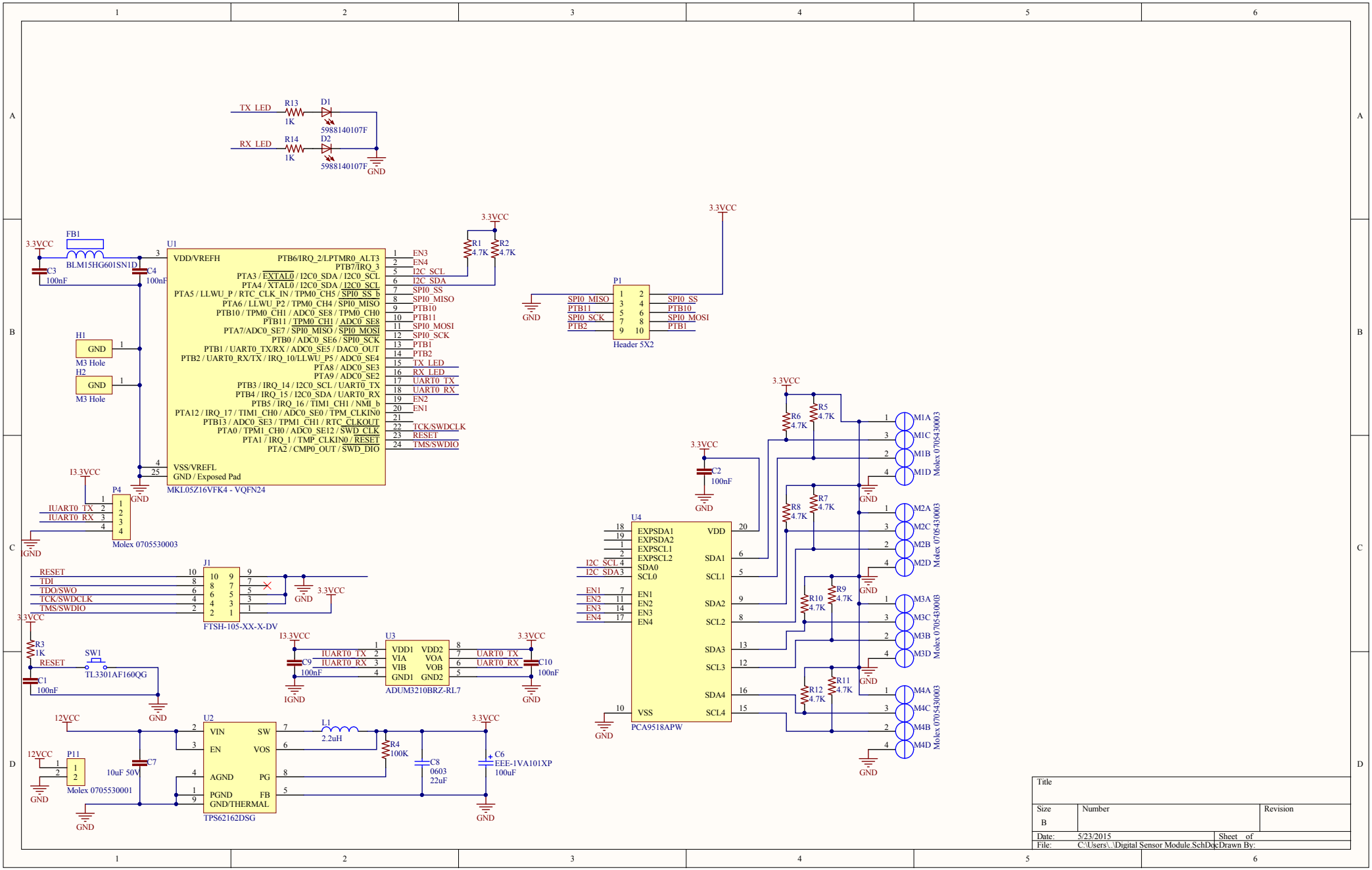
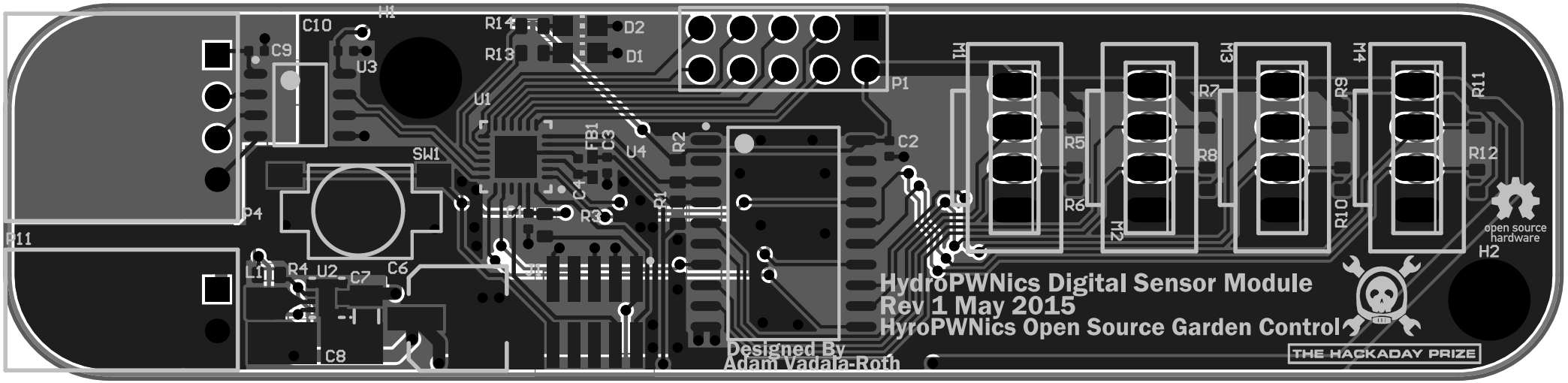


Title			
Size: B	Number		Revision
Date: 5/23/2015		Sheet of	
File: C:\Users\..\Digital Sensor Module.SchDoc		Drawn By:	


C10
H1
C9
U3
R14
R13
D2
D1
P1
U1
FB1
C3
U4
R2
C2
SW1
C4
R3
R1
P4
R11
L1
R4
U2
C7
C6
C8
M1
M2
M3
M4
R5
R6
R7
R8
R9
R10
R11
R12
HydroPWNics Digital Sensor Module
Rev 1 May 2015
HyroPWNics Open Source Garden Control
Designed By
Adam Vadala-Roth
open source
hardware
H2
THE HACKADAY PRIZE

Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	CAP CER 0402 100nF 16V 10% X7R	C1, C2, C3, C4, C9, C10	C0402	GRM155R71C104KA88D	6
EEE-1VA101XP	CAP ALUM 100UF 35V 20% SMD	C6	EEE-1VA101XP	EEE-1VA101XP	1
10uF 50V	CAP CER 10UF 50V 10% X5R 1206	C7	C1206	CL31A106KBHNNNE	1
0603	CAP CER 22UF 6.3V 10% X5R 0805	C8	C0805	CL21A226KQQNNNE	1
5988140107F	LED 0805 Yellow	D1, D2	LED2012120	5988140107F	2
BLM15HG601SN1D	BLM15HG601SN1D	FB1	BLM18PG121SN1D	BLM15HG601SN1D	1
M3 Hole	3mm Hole	H1, H2	Hole-3mm	Hole	2
FTSH-105-XX-X-DV		J1	FTSH-105-XX-X-DV	ARM Cortex JTAG-DEBUG Header	1
VLS252012T-2R2M1R3	VLS252012T-2R2M1R3	L1	VLS252012T-2R2M1R3	VLS252012T-2R2M1R3	1
Molex 0705430003	Molex 4 Pin Clip Connector	M1, M2, M3, M4	4POL254	Molex 0705430003 Alt	4
Header 5X2	Header, 5-Pin, Dual row	P1	HDR2X5	Header 5X2	1
Molex 0705530003	Molex 0705530003 Right Angle 2.54mm Shrouded Header	P4	0705530003	0705530003	1
Molex 0705530001	Molex 0705530002 Right Angle 2.54mm Shrouded Header	P11	0705530001	0705530001	1
4.7K	RES 0603 4.7K 100mW 1%	R1, R2, R5, R6, R7, R8, R9, R10, R11, R12	R0603	ERJ3EKF4701V	10
1K	RES 0603 1K 100mW 1%	R3, R13, R14	R0603	ERJ-3EKF1001V	3
100K	RES 100K OHM 1/10W 1% 0603 SMD	R4	R0603	RC0603FR-07100KL	1
TL3301AF160QG	TL3301AF160QG	SW1	TL3301AF160QG	TL3301AF160QG	1
MKL05Z16VFK4 - VQFN24	ARM Cortex M0+	U1	98ASA00474D	MKL05Z16VFK4 - 24 Pin VQFN	1
TPS62162DSG		U2	DSG8-1600X900TP	TPS62162SOP	1
ADUM3210BRZ-RL7	DGTL ISO 2.5KV GEN PURP 8SOIC	U3	ADUM3210BRZ-RL7	ADUM3210BRZ-RL7	1
PCA9518APW	IC I2C HUB 5CH EXPAND	U4	PCA9518APW,512	PCA9518APW512	1