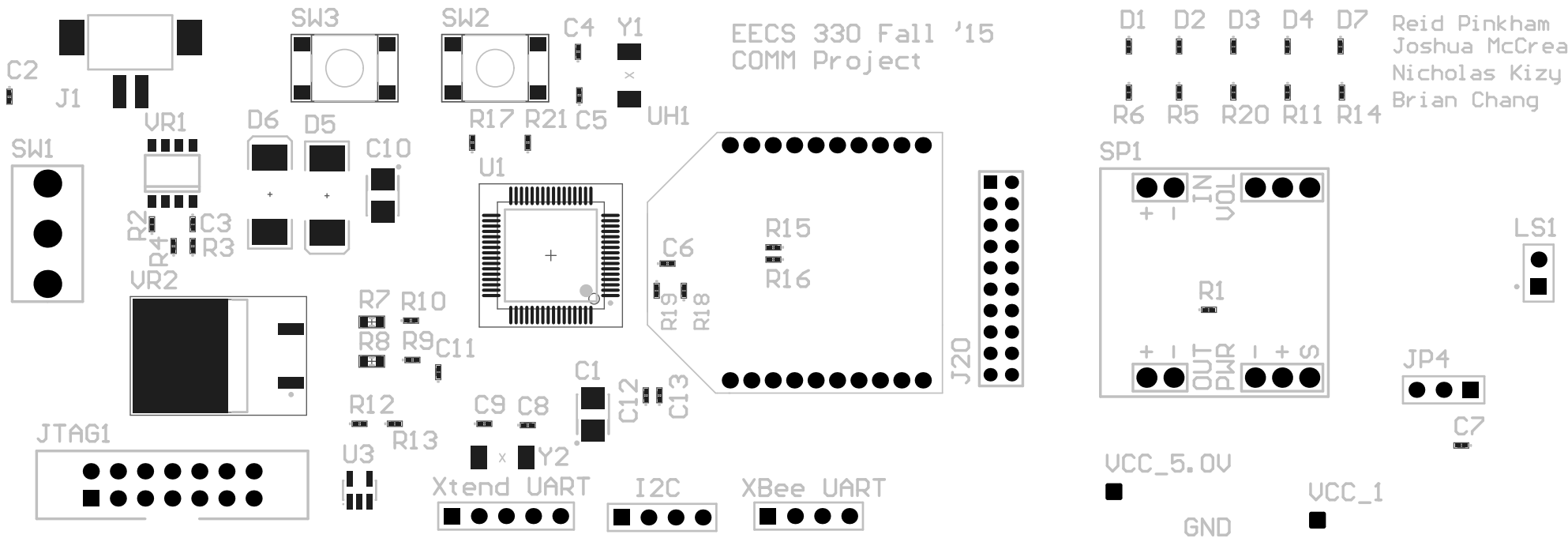


Comment	Description	Designator	Footprint	LibRef	Quantity
Electrolytic Cap		C1, C10	B/3528-21	Capacitor Electrolytic	2
Cer Cap		C2, C3, C4, C5, C6, C7, C8, C9, C11, C12, C13	0603	Capacitor Ceramic	11
LED	LED	D1, D2, D3, D4, D7	0603	LED	5
MRA4003T3G	Default Diode	D5, D6	SMC	Diode	2
7.4 V		J1	DF3DZ-2P-2H	DF3DZ-2P-2H	1
XTEND 20 pin		J20	XTEND Connector	XTEND 20 pin	1
Mic Header	Header, 3-Pin	JP4	HDR1X3	Header 3	1
7X2	Header, 7-Pin, Dual row	JTAG1	MHC14K	Header 7X2	1
Speaker	Loudspeaker	LS1	PIN2	Speaker	1
Xtend UART HEADER	Header, 5-Pin	P1	HDR1X5	Header 5	1
I2C HEADER	Header, 4-Pin	P2	HDR1X4	Header 4	1
XBee UART HEADER	Header, 4-Pin	P3	HDR1X4	Header 4	1
Res	Resistive element	R1, R2, R3, R4, R5, R6, R9, R10, R11, R14, R15, R16, R17, R18, R19, R20, R21	0603	Resistor	17
	Resistor	R7, R8	J1-0603	Res3	2
0		R12	0603	RES1	1
100K		R13	0603	RES1	1
Audio Amp		SP1	Audio Amp	Audio Amp	1
SPDT		SW1	1101M2S3CQE2	SPDT	1
GPIO_SW1	WS-TASV SMD Tact Switch 6X6 mm	SW2	430152043826	WE-Tact Switches WS-TASV 430152043826	1
GPIO_SW2	WS-TASV SMD Tact Switch 6X6 mm	SW3	430152043826	WE-Tact Switches WS-TASV 430152043826	1
MSP430F2618	Microcontroller from TI	U1	MSP430F2618	MSP430F2618	1
TPS3838	ADJUSTABLE VOLTAGE SUPERVISOR	U3	SO-G5/P.95	TPS3838	1
XBee		UH1	XBEE_RADIO	XBee	1
Testpoint	Probe point for testing	VCC_1, VCC_5.0V	TESTPOINT	Testpoint	2
LT1763		VR1	LT11763	LT1763	1
LM317	Voltage Regulator	VR2	D2PAK_N	Volt Reg	1
Crystal		Y1, Y2	ABS10	Crystal	2

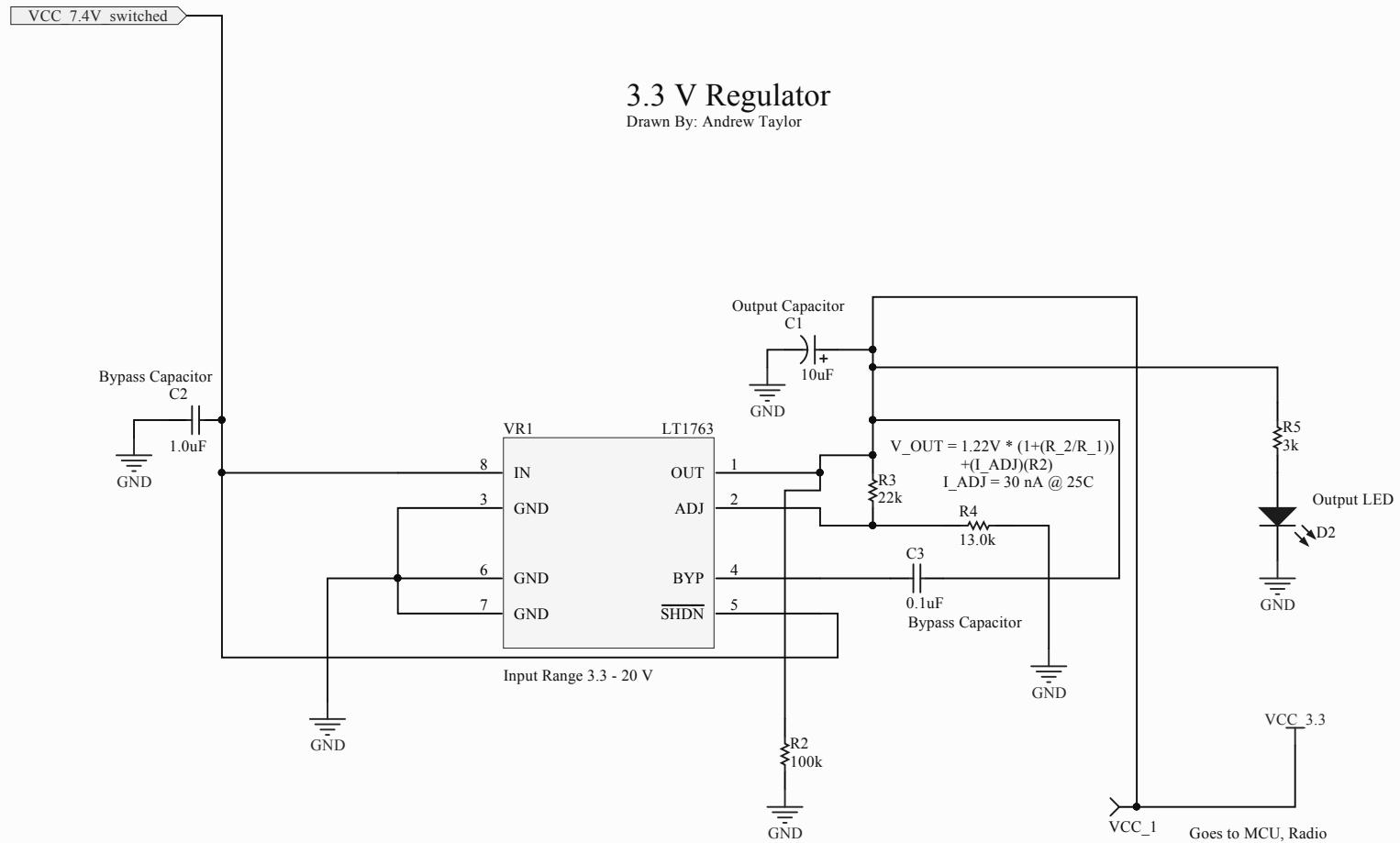
EECS 330 Fall '15  
COMM Project

Reid Pinkham  
Joshua McCreedy  
Nicholas Kizy  
Brian Chang



## 3.3 V Regulator

Drawn By: Andrew Taylor



### 3.3 V Regulation

Author: Andrew Taylor

Organization: University of Michigan

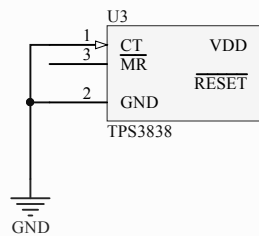
Sheet 2 of 9 Revision: 2.2

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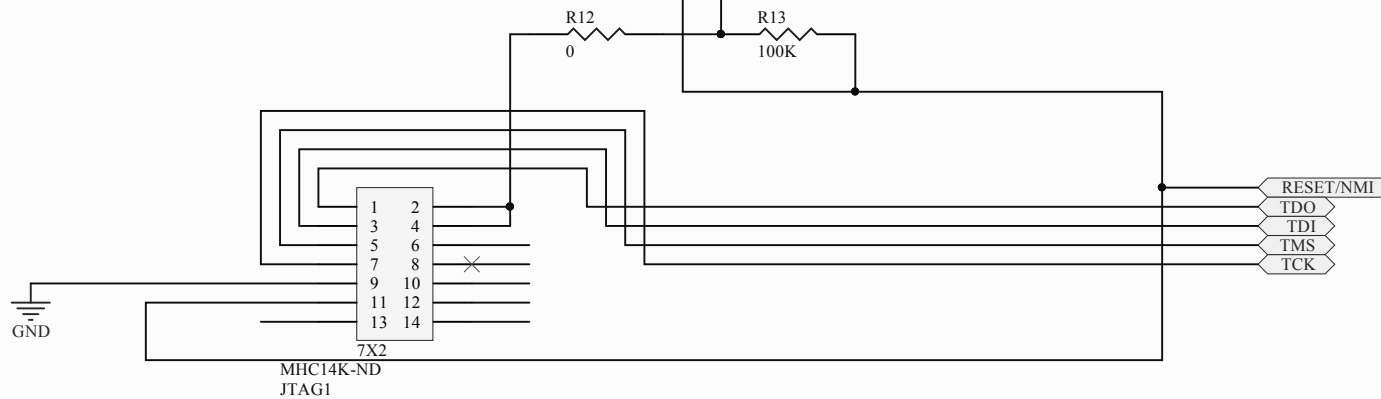


VCC 3.3



## JTAG

Drawn By: James Cutler, Andrew Taylor



### JTAG

Author: Andrew Taylor

Organization: University of Michigan

Sheet 4 of 9

Revision: 2.2

Date: 11/20/2015

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File: JTAG.SchDoc

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1

2

3

4

A

A

B

B

C

C

D

D

JP4

1

2

3

Mic Header

VCC\_3.3

GND

Mic Input

Title **Microphone Input**

Size

A

Number

6

Revision

0

Date:

11/20/2015

Sheet of

File:

\\.\Microphone Input.SchDoc

Drawn By:

R. Pinkham

1

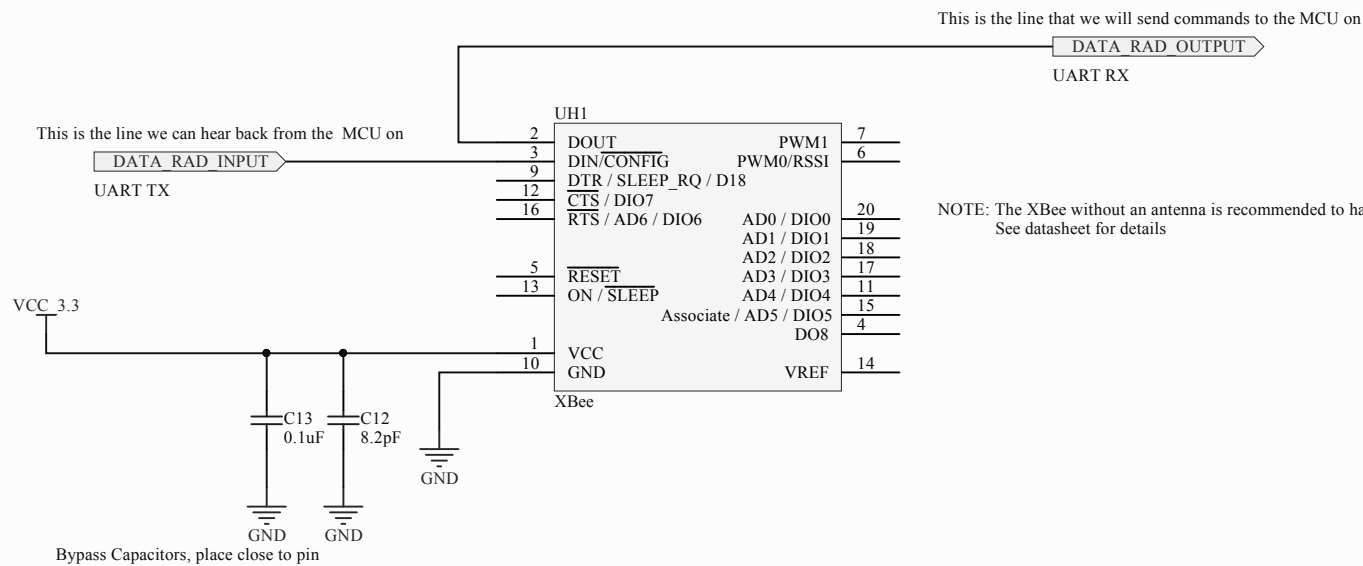
2

3

4

## XBEE Radio

Drawn By: Andrew Taylor



### XBEE Radio

Author: Andrew Taylor

Organization: University of Michigan

Sheet 8 of 9

Revision: 2.2

Date: 11/20/2015

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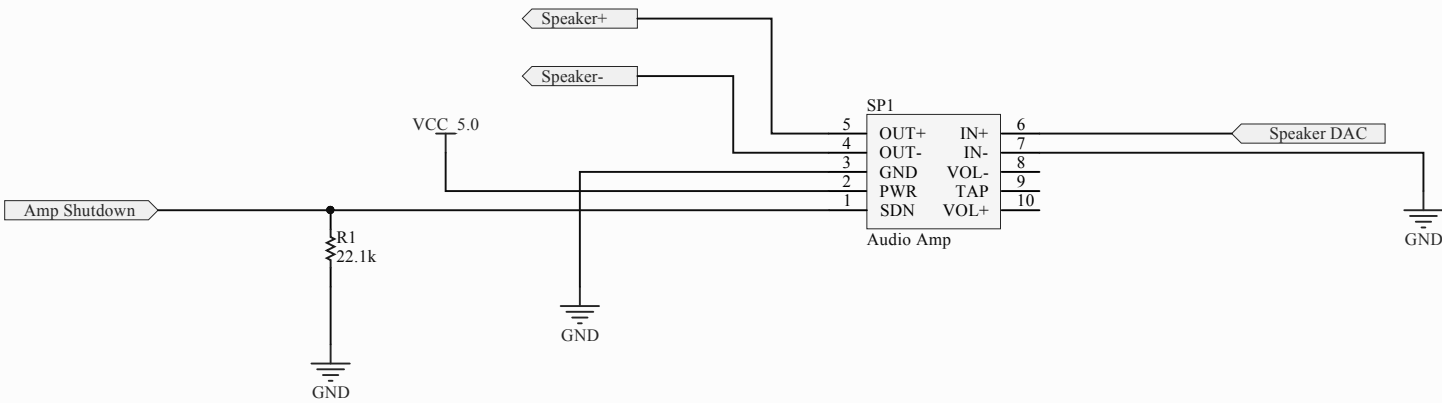
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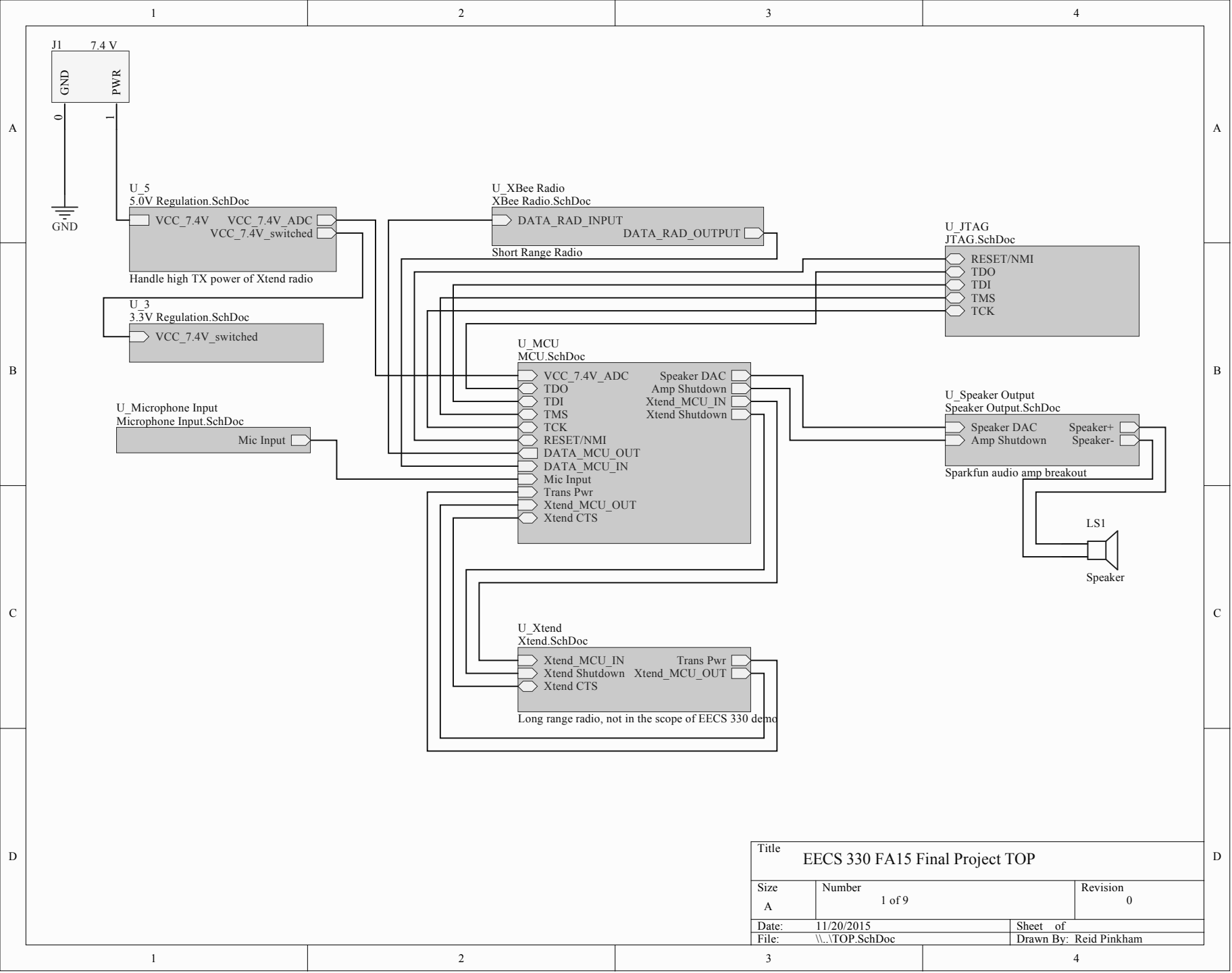








Title <b>Speaker Output</b>		
Size <b>A</b>	Number <b>7 of 9</b>	Revision <b>0</b>
Date:	11/20/2015	Sheet of
File:	\\.\Speaker Output.SchDoc	Drawn By: <b>R. Pinkham</b>



Title EECS 330 FA15 Final Project TOP		
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