
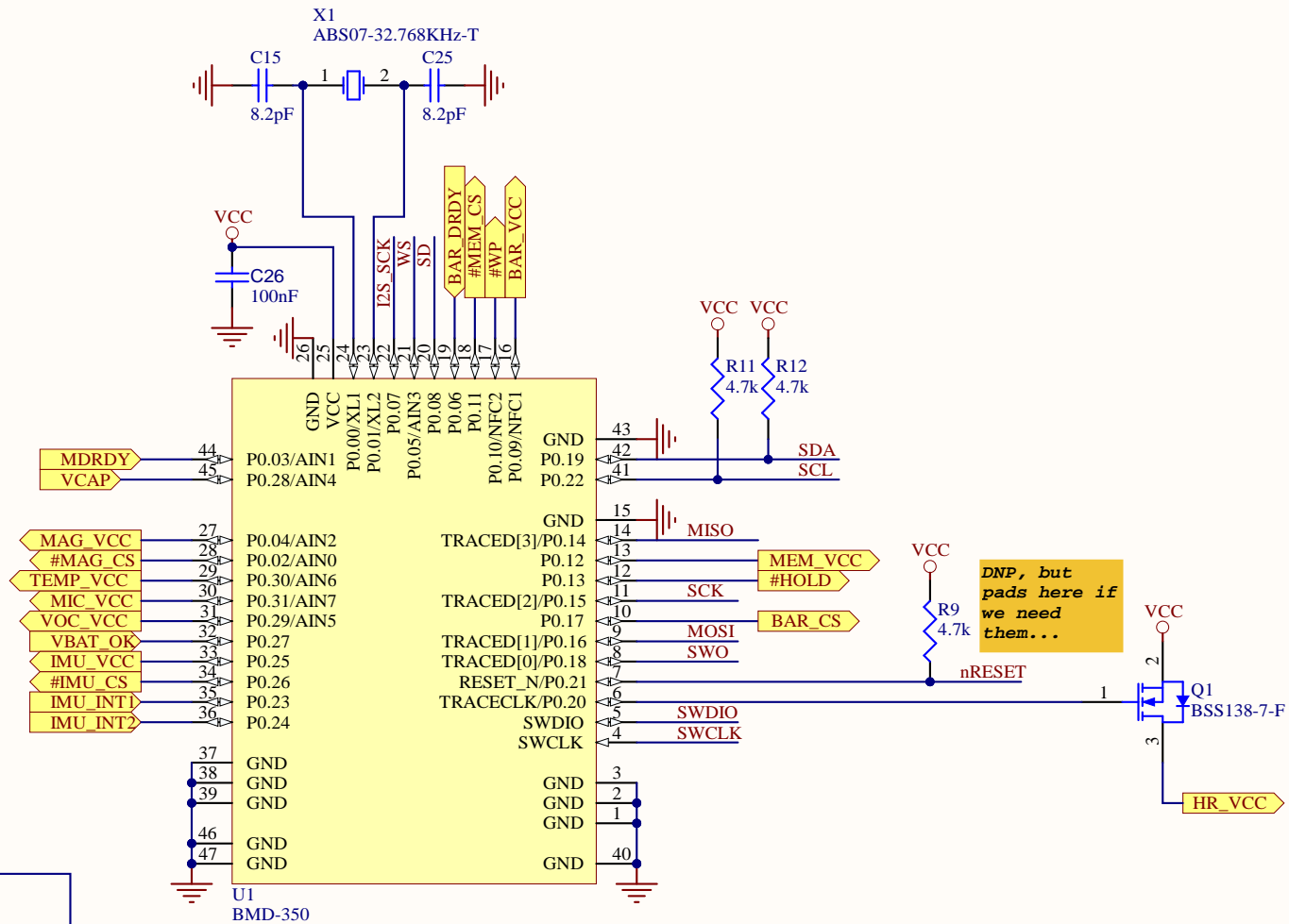
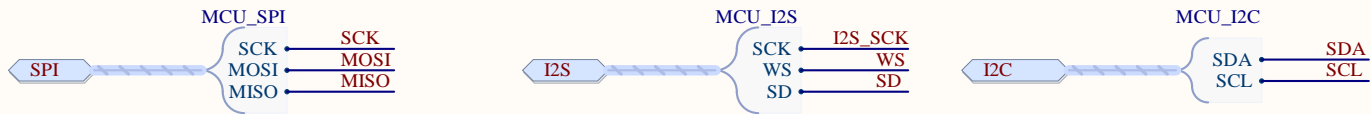
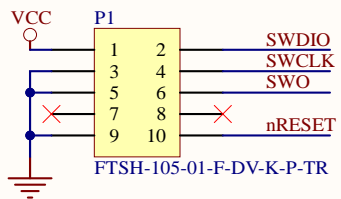


Title: <i>Top</i>		Sheet 1 of 5
Project: <i>Smart PPE</i>		Variant: <i>v0.0</i>
Author: <i>Alexander Curtiss</i>	Date: <i>10/20/2020</i>	
E-Mail: <i>alexander.curtiss@u.northwestern.edu</i>		
<div>Ka Moamoa Northwestern University <a href="http://kamoamoa.eecs.northwestern.edu/">http://kamoamoa.eecs.northwestern.edu/</a></div> <div> Ka Moamoa</div>		



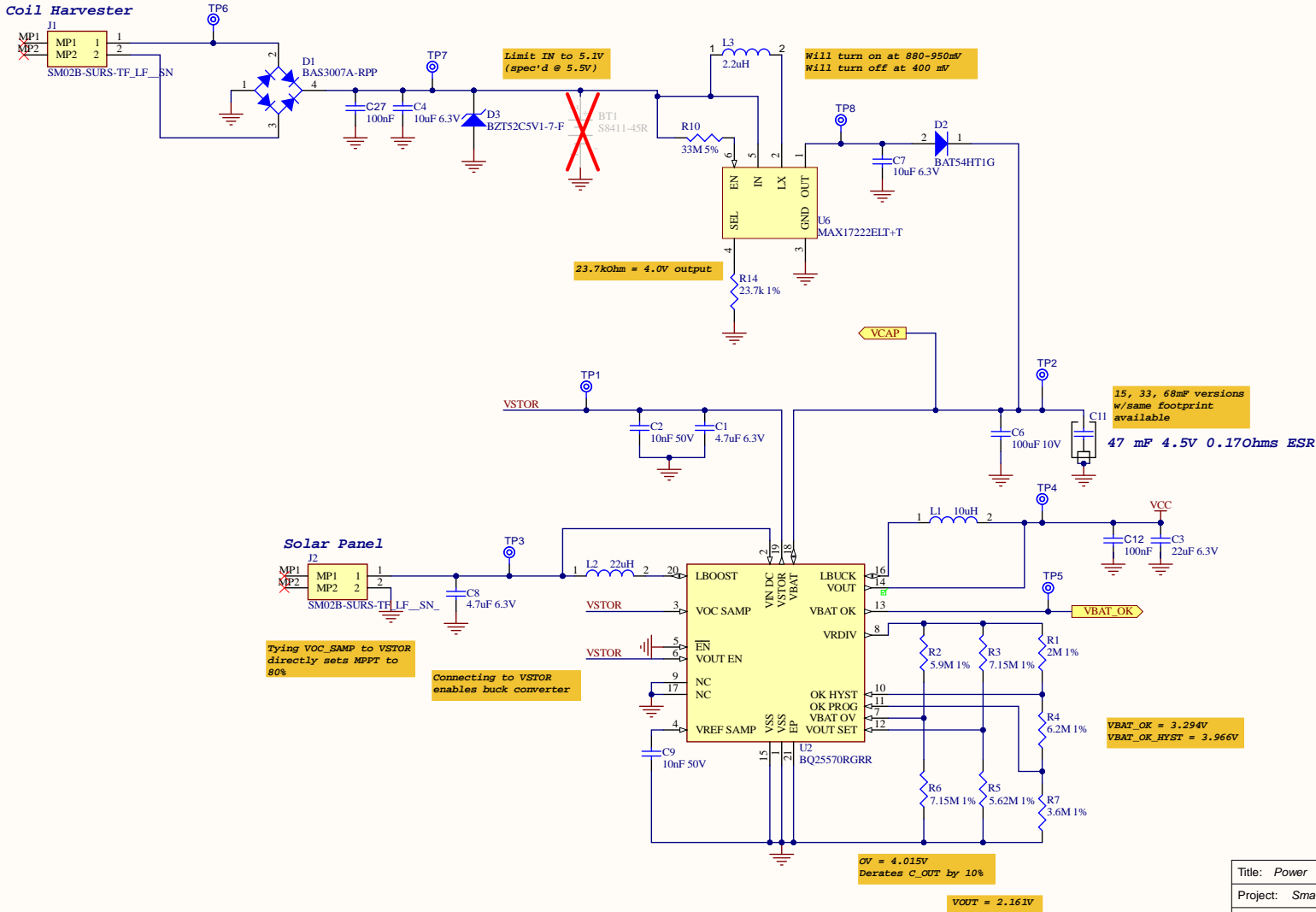
**J-Link**




Title: <i>MCU</i>		Sheet 2 of 5	
Project: <i>Smart PPE</i>		Variant: <i>v0.0</i>	
Author: <i>Alexander Curtiss</i>		Date: <i>10/20/2020</i>	
E-Mail: <i>alexander.curtiss@u.northwestern.edu</i>			
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# Power Harvesting

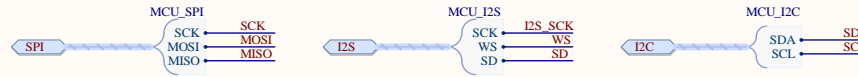
## Coil Harvester



Title: <i>Power</i>		Sheet 3 of 5	
Project: <i>Smart PPE</i>		Variant: <i>v0.0</i>	
Author: <i>Alexander Curtiss</i>		Date: <i>10/20/2020</i>	
E-Mail: <i>alexander.curtiss@u.northwestern.edu</i>			
Ka Moamoa Northwestern University <a href="http://kamoamoa.eecs.northwestern.edu/">http://kamoamoa.eecs.northwestern.edu/</a>			 Ka Moamoa

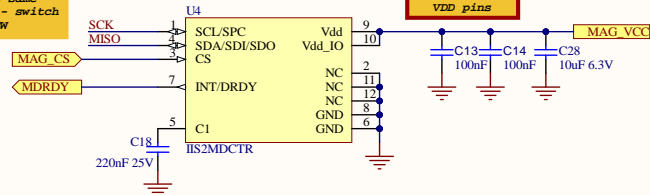
# Communication Buses

I2C pulled high on MCU

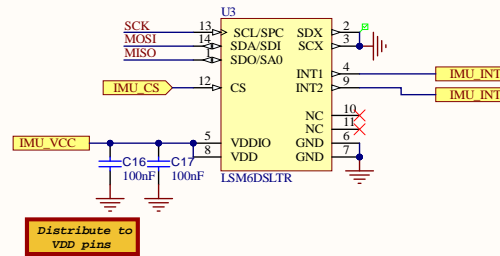


## Magnetometer

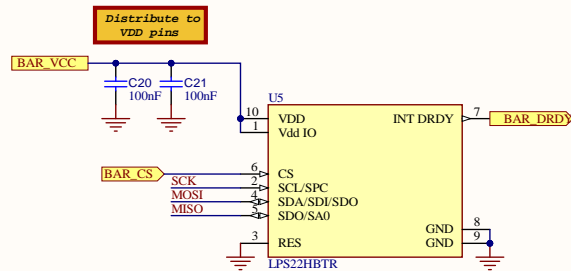
3-Wire SPI uses same bus - switch in SW



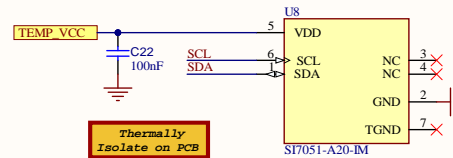
## IMU



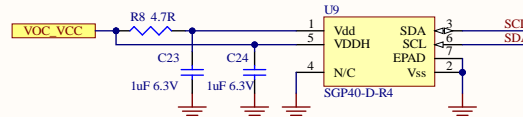
## Barometer



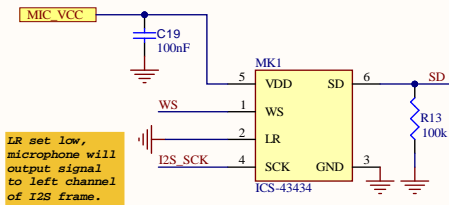
## Temperature



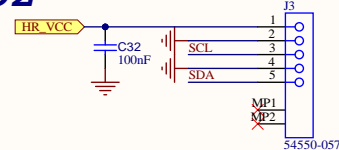
## Air Quality




## Microphone



## PPM/SpO2



Title: <i>Sensors</i>		Sheet 4 of 5	
Project: <i>Smart PPE</i>		Variant: <i>v0.0</i>	
Author: <i>Alexander Curtiss</i>		Date: <i>10/20/2020</i>	
E-Mail: <i>alexander.curtiss@u.northwestern.edu</i>			
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A

B

C

D

A

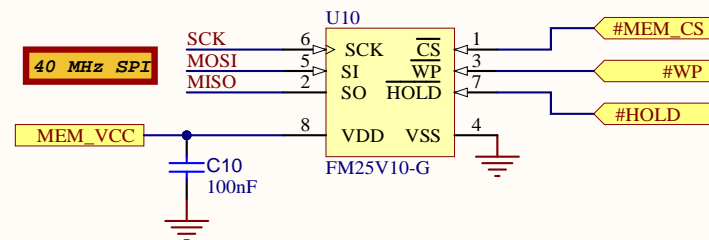
B


C

D



# FRAM



Title: <i>Memory</i>		Sheet 5 of 5
Project: <i>Smart PPE</i>		Variant: <i>v0.0</i>
Author: <i>Alexander Curtiss</i>	Date: <i>10/20/2020</i>	
E-Mail: <i>alexander.curtiss@u.northwestern.edu</i>		
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