

Revision History:

Date: Revision: Comments:

A

ECE353 Development Board Fall 2023



ECE 353



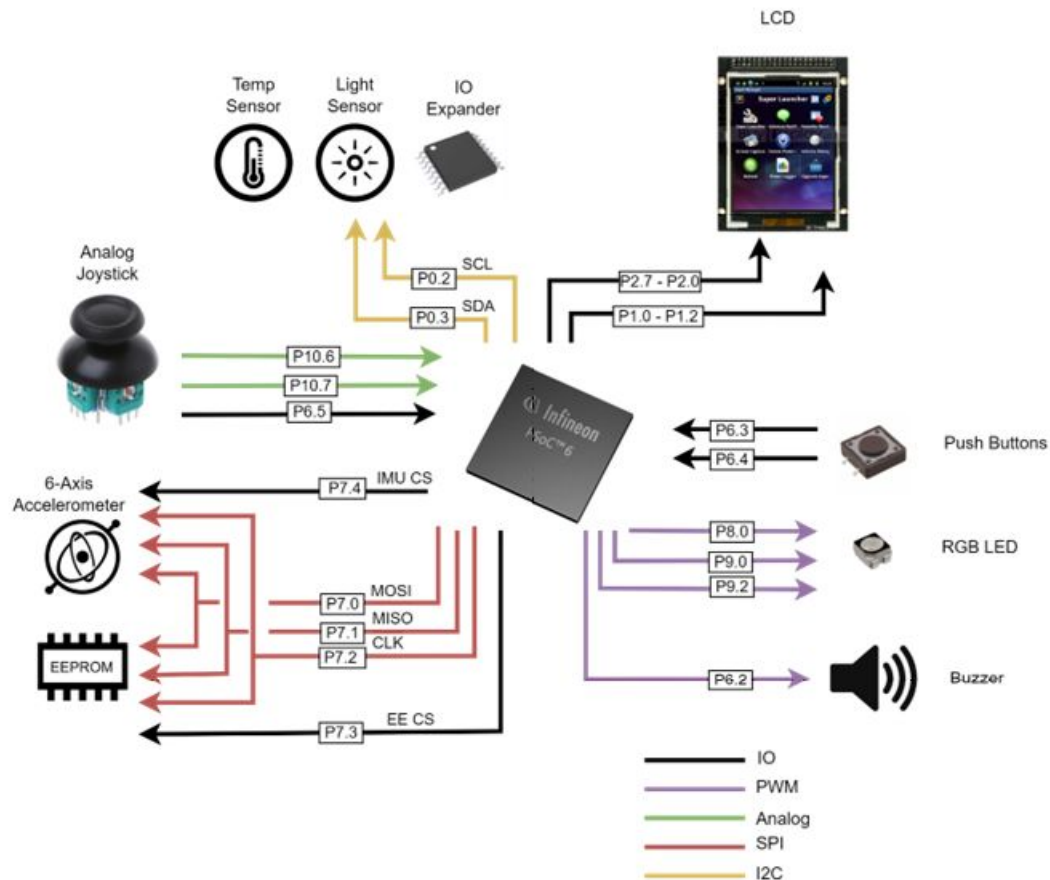
Important Notes about this Schematic:


DESIGN NOTE:

Design notes in gray text boxes give information about design requirements and decisions.

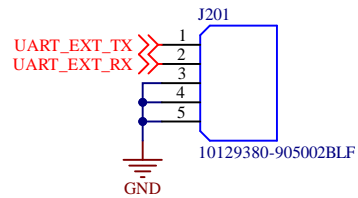
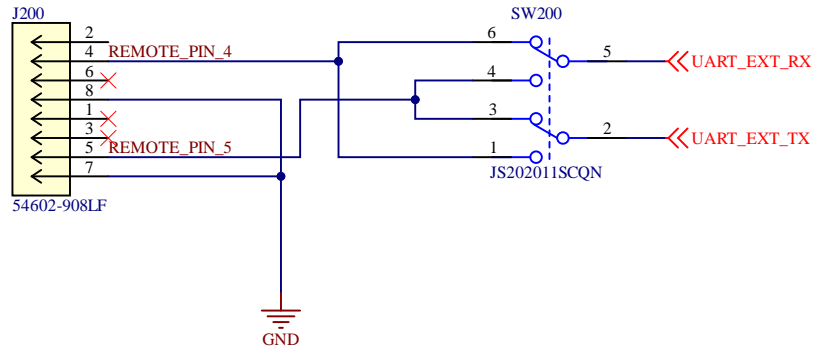
LAYOUT NOTE:

Layout notes in red text boxes give information regarding layout requirements.



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<div>  <div> THE UNIVERSITY of WISCONSIN MADISON </div> </div> <div> College of Engineering 1415 Engineering Drive Madison, WI 53706 </div>			





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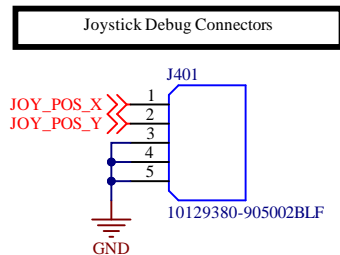
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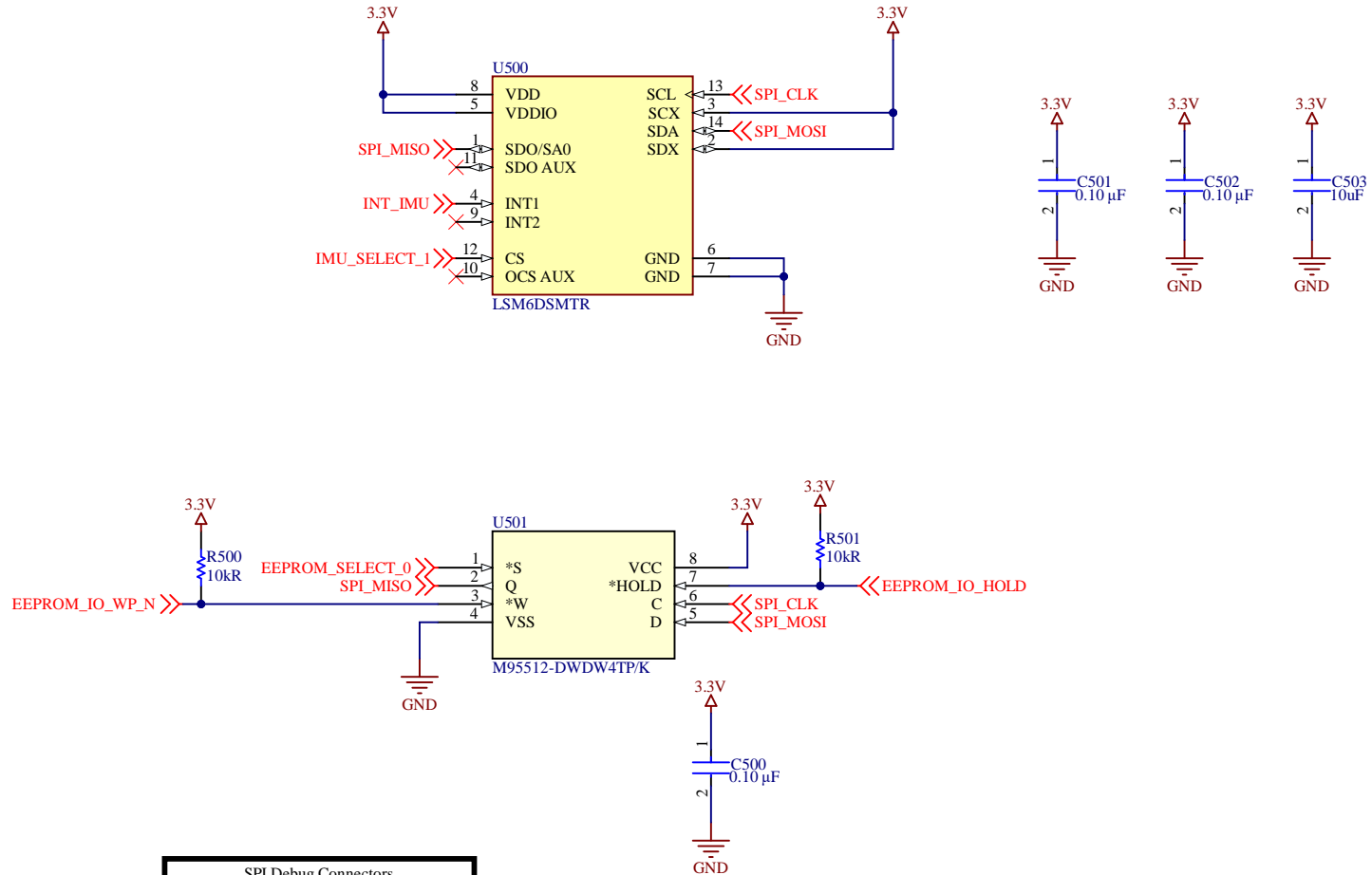
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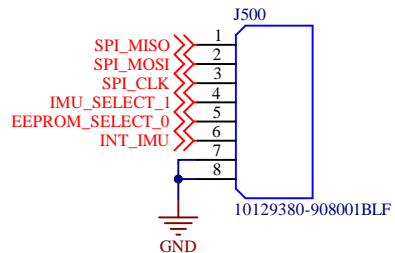
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SPI Debug Connectors



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SPI

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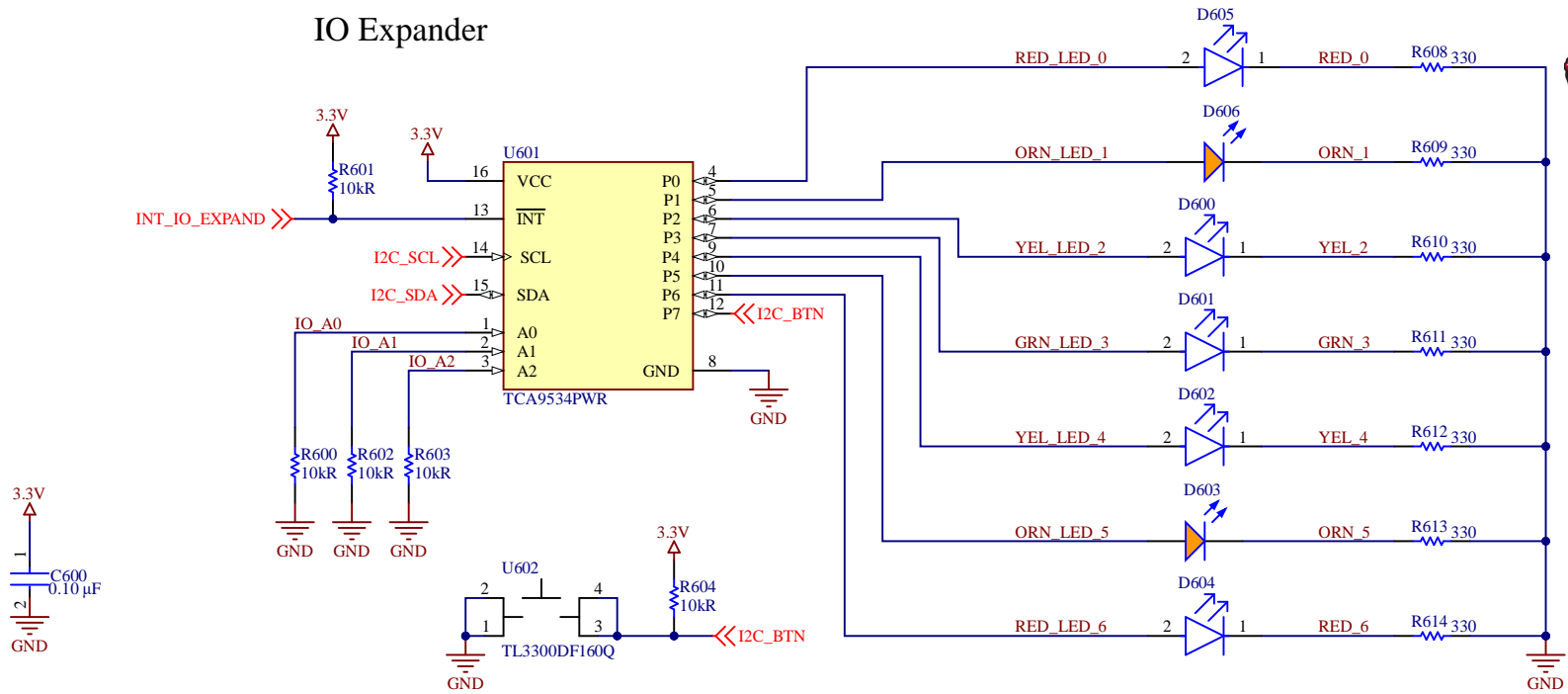
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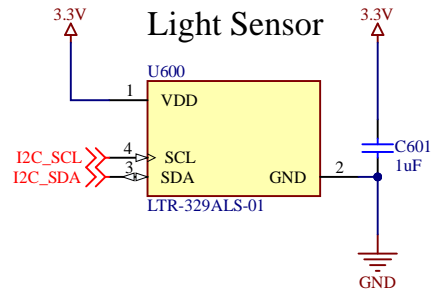
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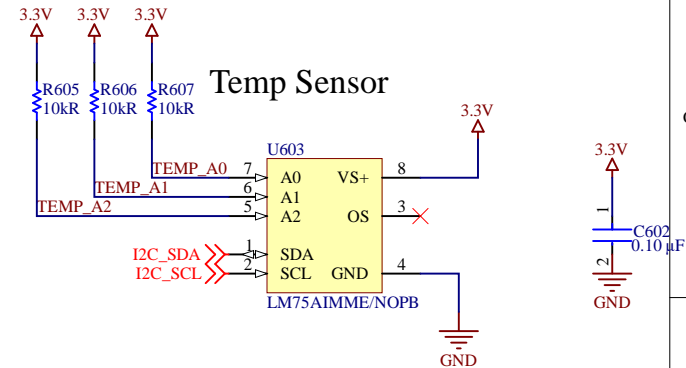
IO Expander



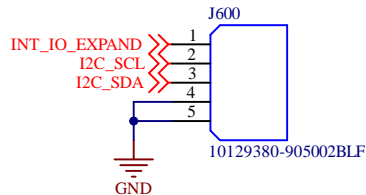
Light Sensor



Temp Sensor



I2C Debug Connectors



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I2C

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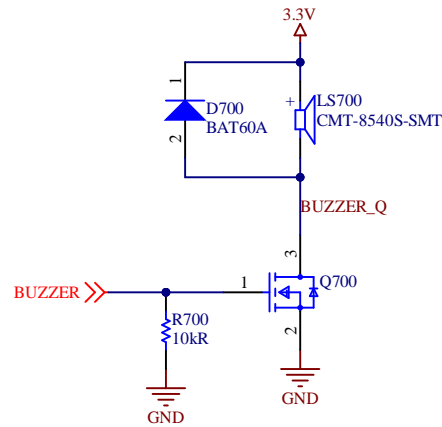
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PWM Buzzer

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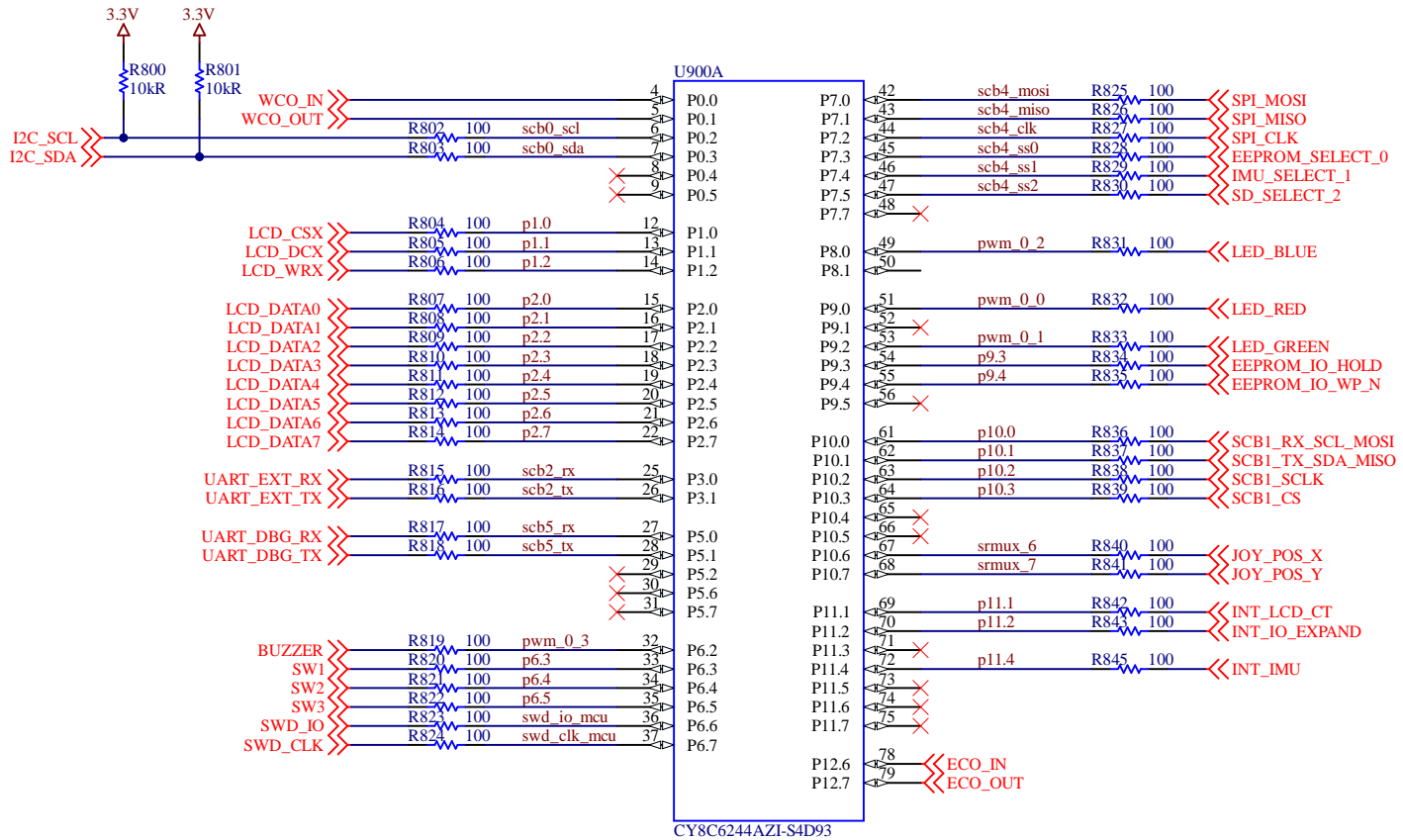
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MCU

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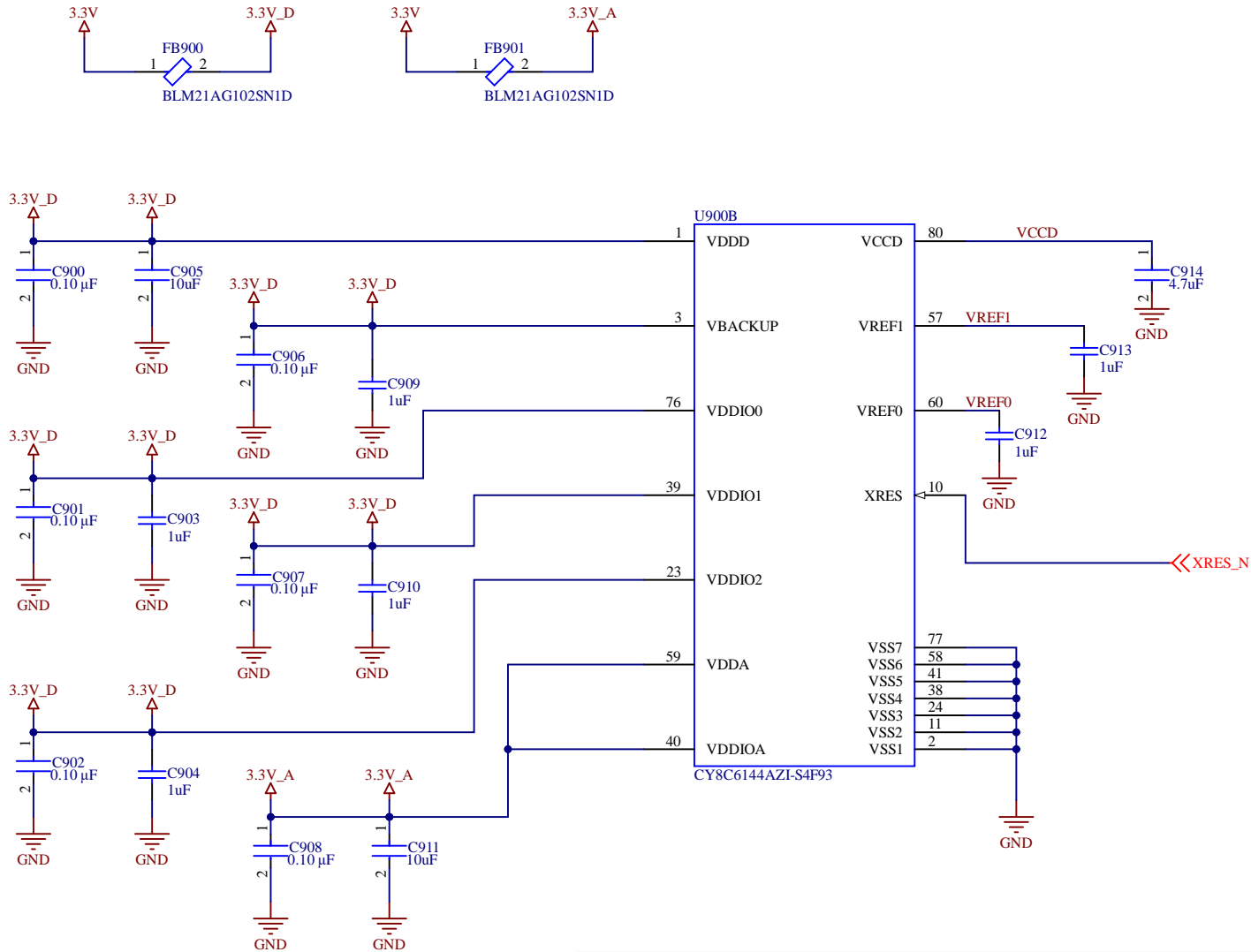


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MCU Power Pins

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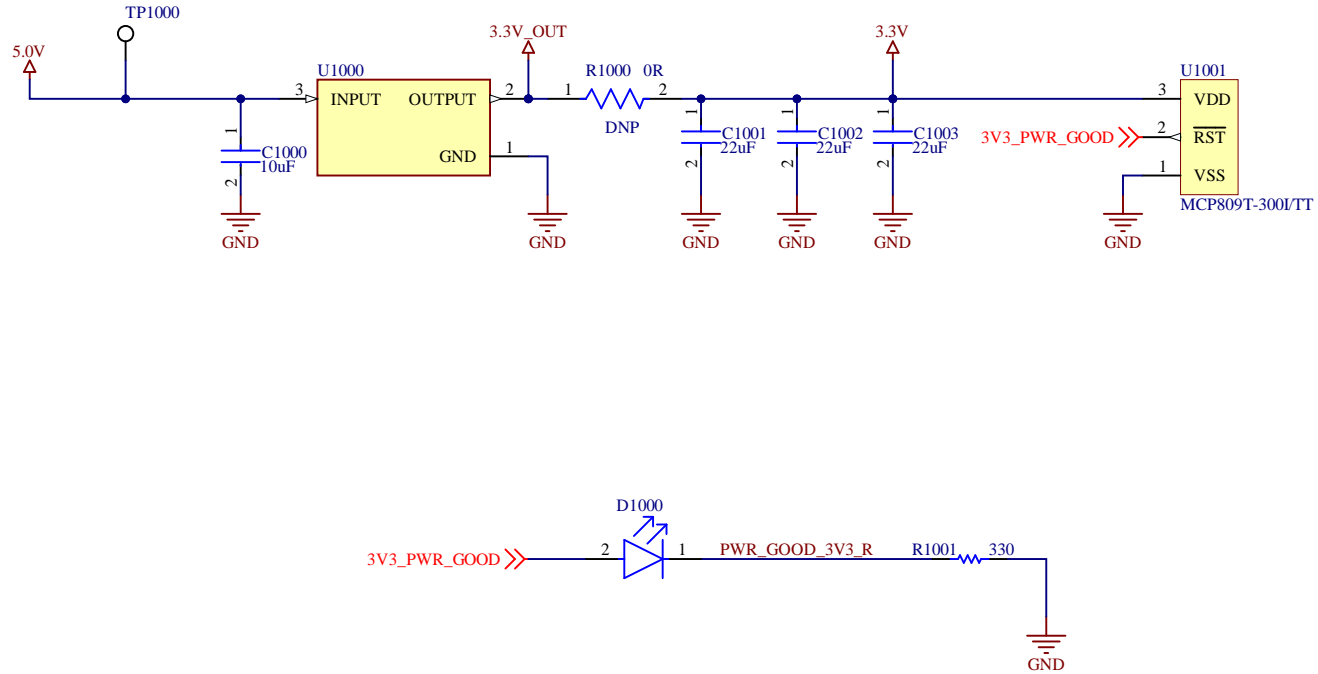


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Voltage Regulation

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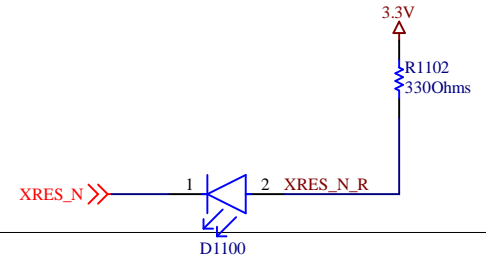
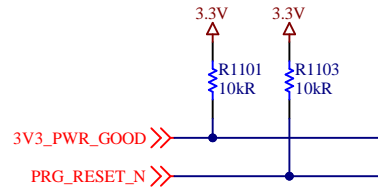
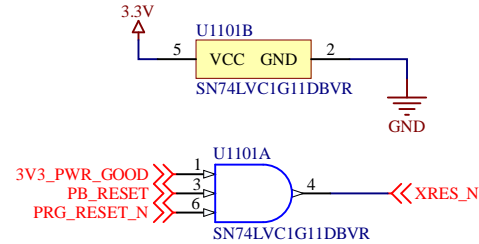
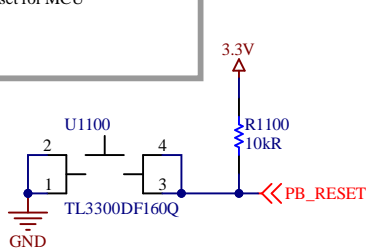
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The MCU can be reset by 1 of 3 sources
1. Programmer
2. Push Button Reset
3. 3.3V Voltage Monitor

Push button reset for MCU



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Reset

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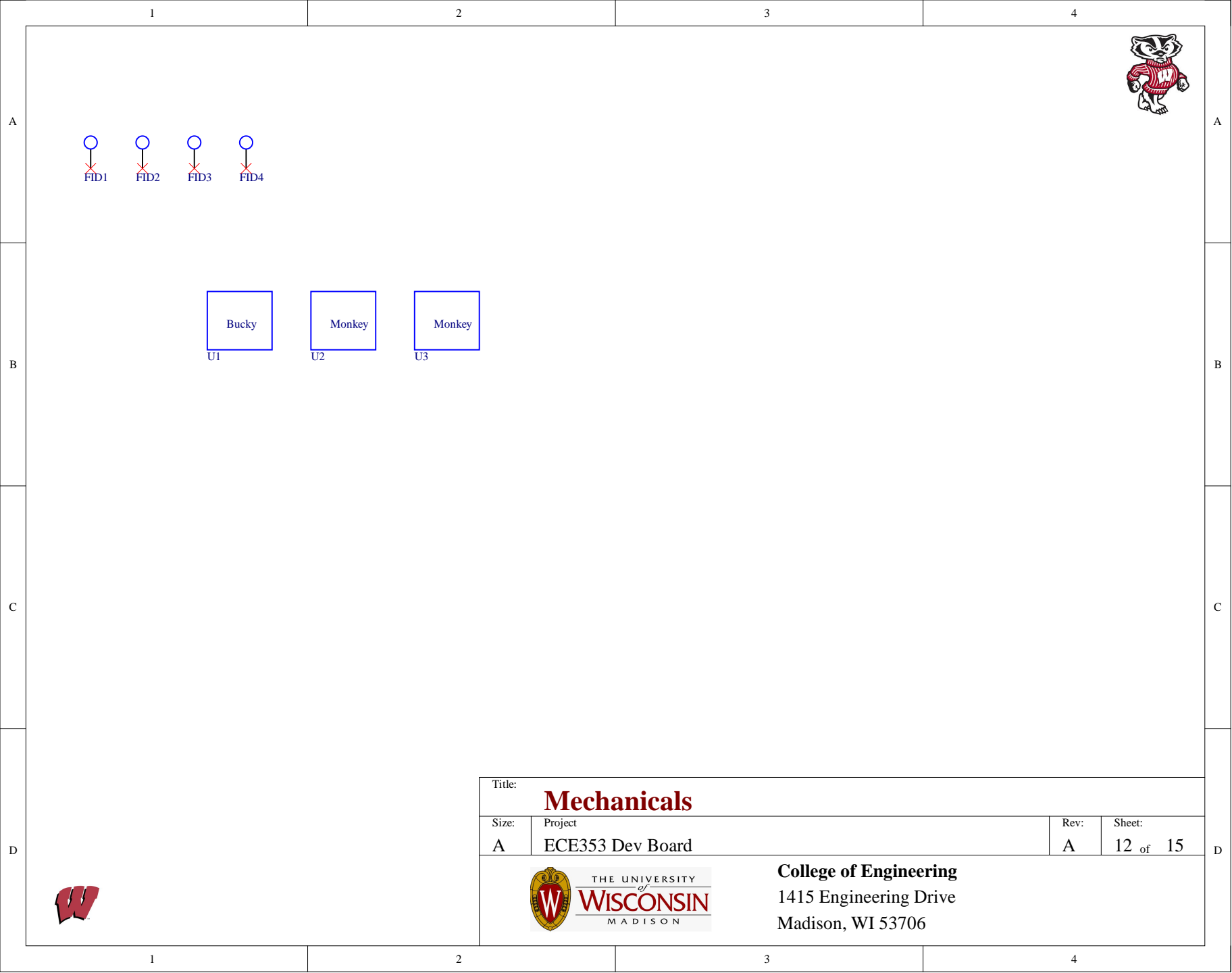



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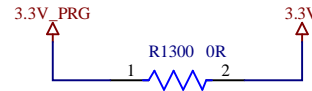
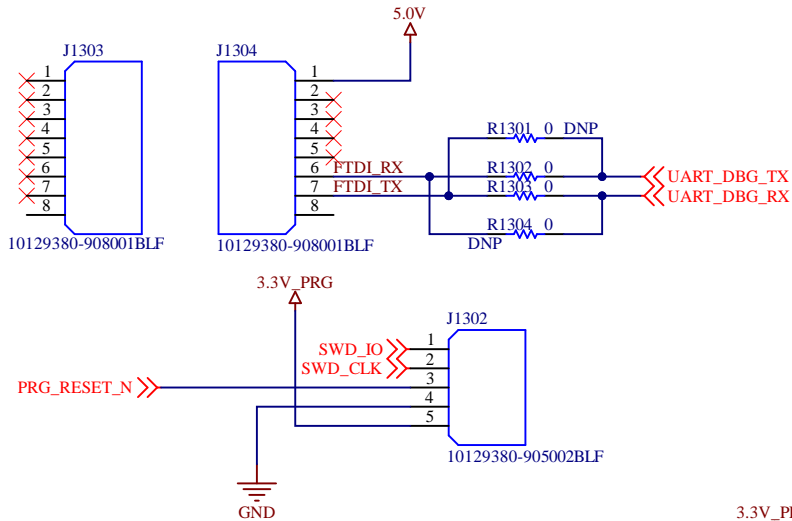




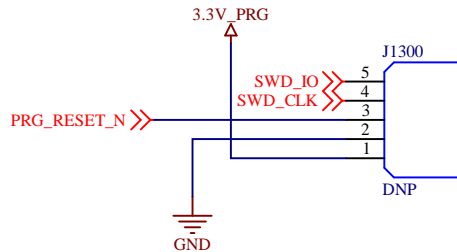
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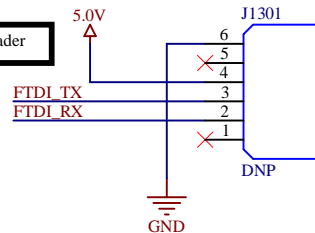
Cypress PSoC 5LP Headers



5 Pin MiniProg4 Header



6-Pin FTDI Cable Header



Title:

Programmer

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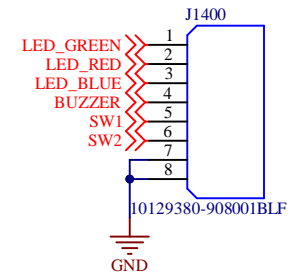
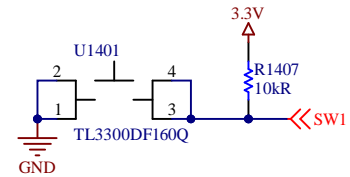
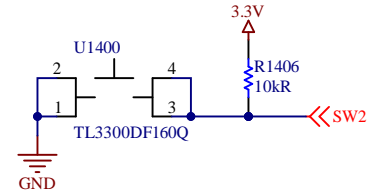
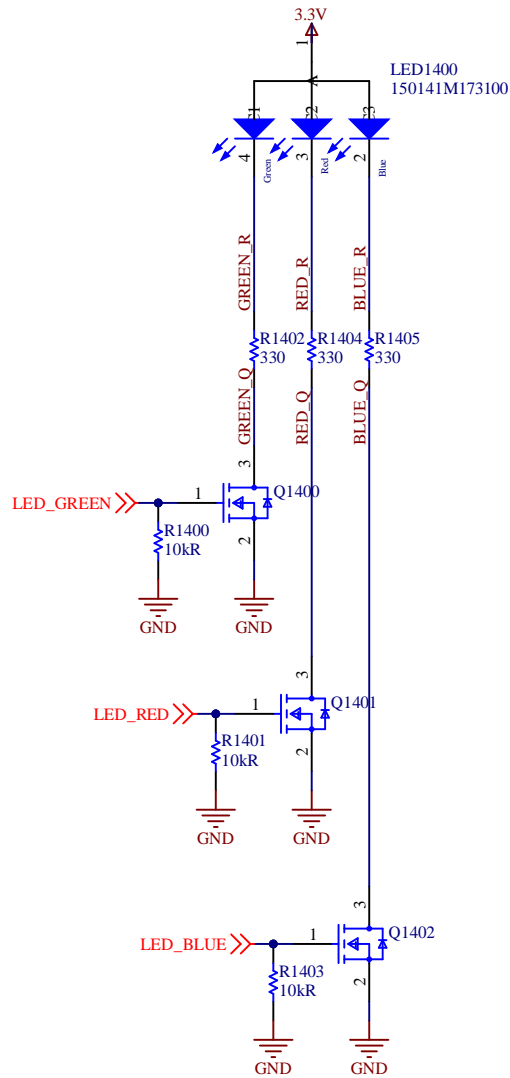
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GPIO

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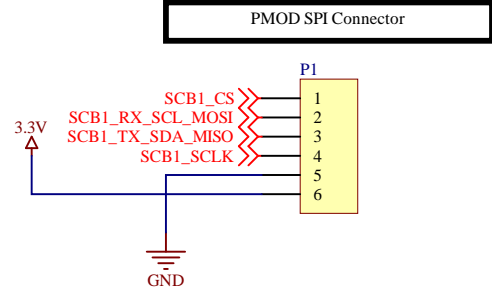
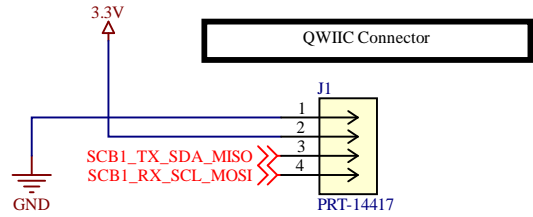


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External Modules

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