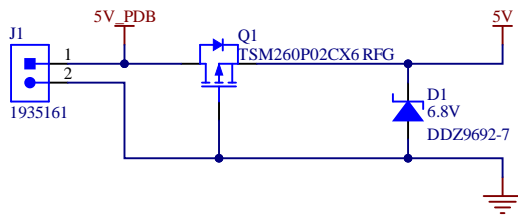
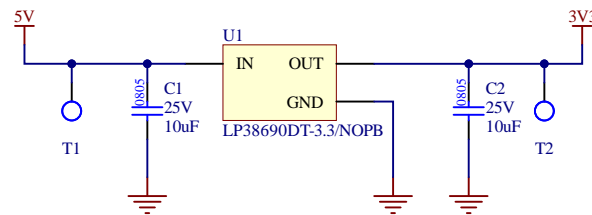


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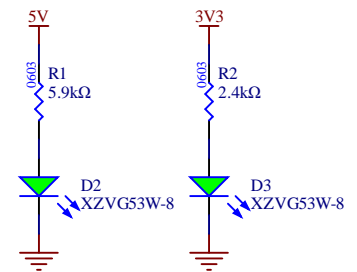
BMS Connector



5V to 3.3V LDO @ 1A Max



Power LEDs



$$R_{5V} = (5V - 2.1V) / (0.5mA) = 5.8k\Omega$$

$$R_{3V3} = (3.3V - 2.1V) / (0.5mA) = 2.4k\Omega$$

Mounting Holes



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LDO.SchDoc

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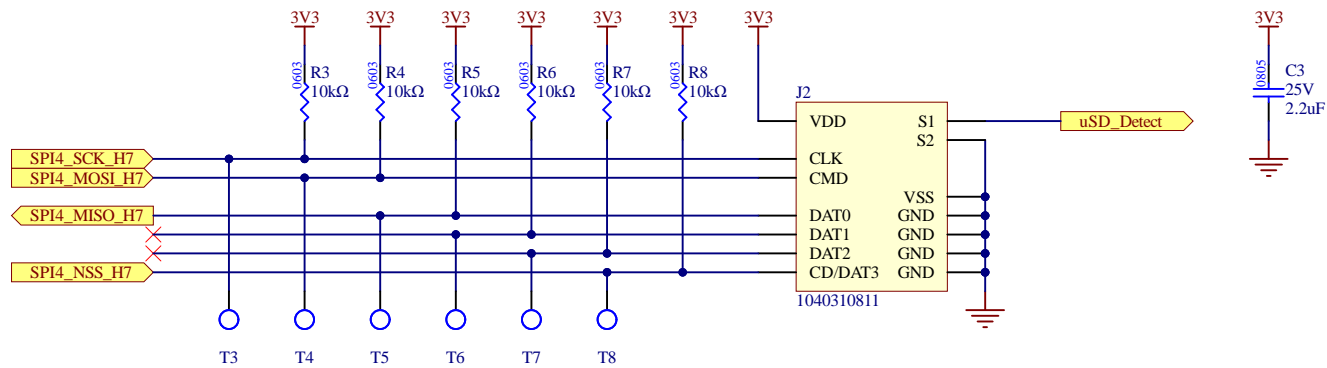
ENGINEER
Daniel Puratich


REVIEWER
*

SHEET 1 OF 9

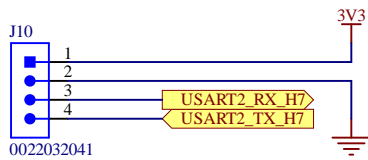
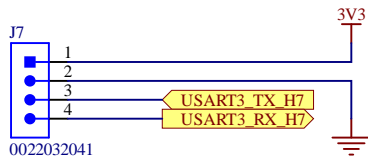
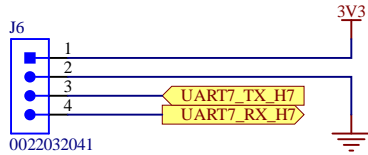
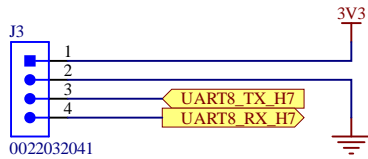
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microSD Connector

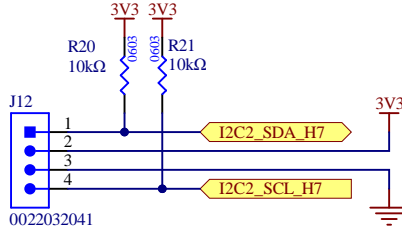
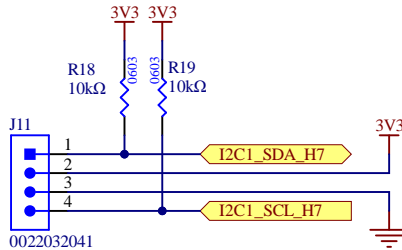


<div>WARG</div>		Waterloo Aerial Robotics Group 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		<div><div></div><div></div></div>	
PROJECT Zeropilot 2.0.PrjPcb, [No Variations]			REVISION *		
DOCUMENT microSD_Connector.SchDoc			MODIFIED 12/28/2021		
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UART Connectors

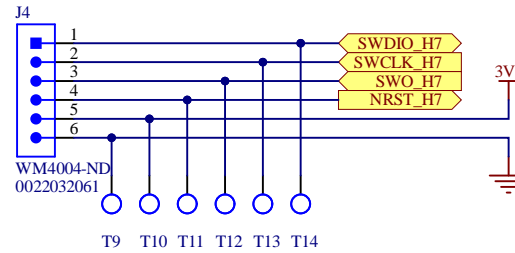


I2C Connectors

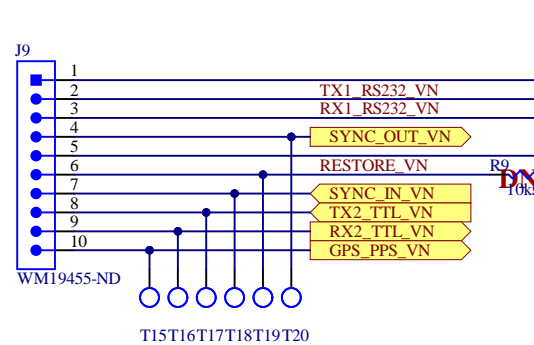


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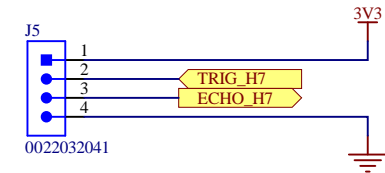
SWD/SWO Connector



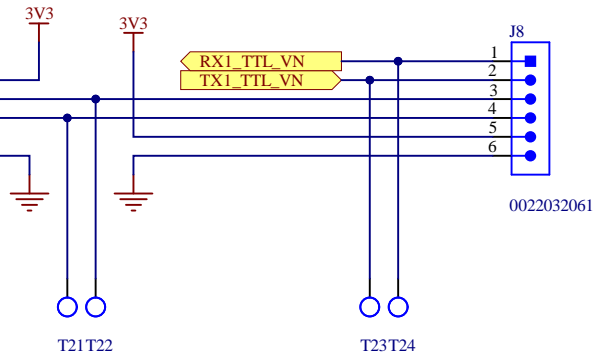
VN-300 Connector





Ultrasonic Connector



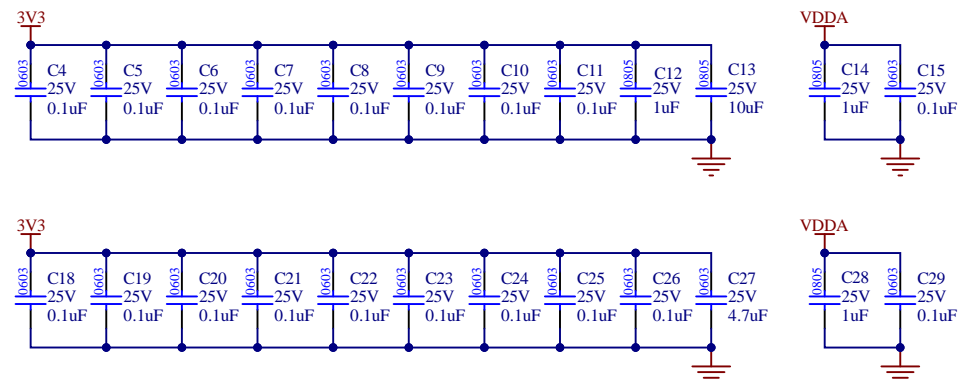
MAX3232 Connector



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H7Connectors.SchDoc				1/5/2022	
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A

H7 Bypass Capacitors



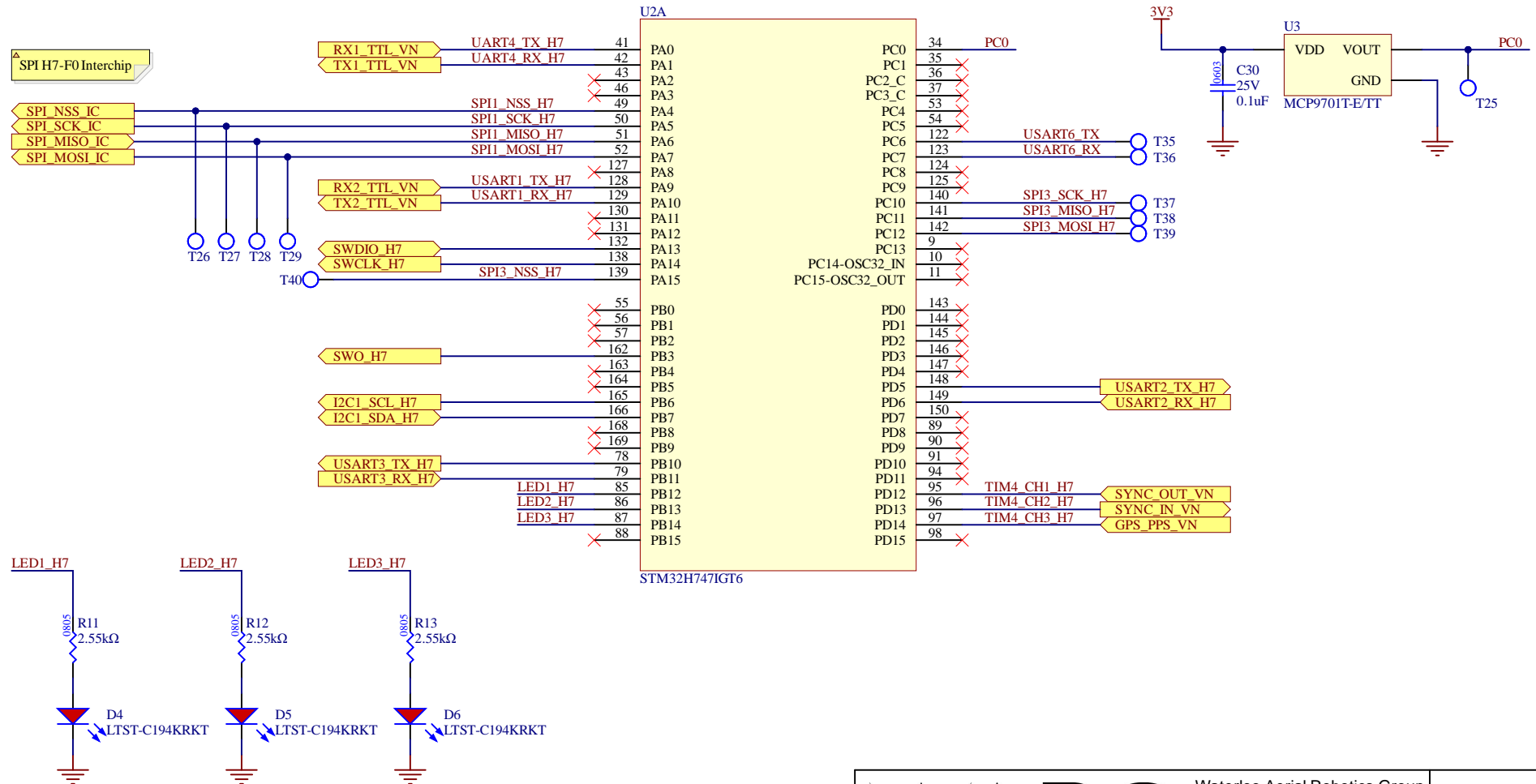
VDD Bypass: $(0.1\mu\text{F} \times 16) + (10\mu\text{F} \times 1)$
 VDDLDO Bypass: $4.7\mu\text{F} \times 1$
 VDDUSB Bypass: $(0.1\mu\text{F} \times 1) + (1\mu\text{F} \times 1)$
 Should be placed as close as possible to each VDD pin.





PROJECT Zeropilot 2.0.PrjPcb, [No Variations]		REVISION *
DOCUMENT H7Power.SchDoc		MODIFIED 1/5/2022
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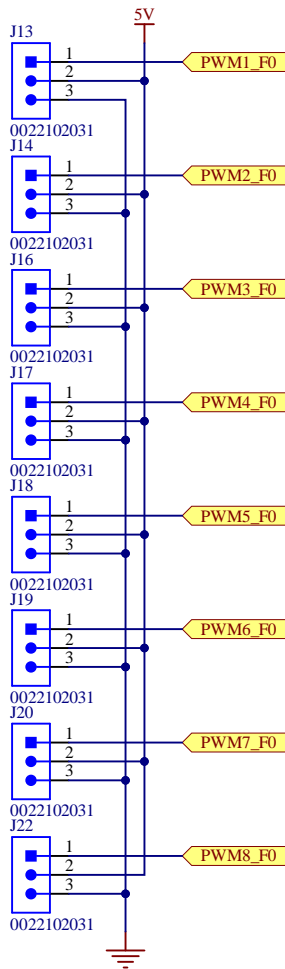
Zeropilot 2.0



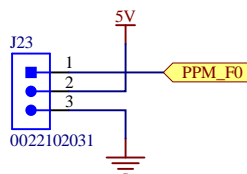
$$R = (3.3V - 2.0V) / (0.5mA) = 2.6k\Omega$$

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H7PartA.SchDoc				12/28/2021	
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PWM Connectors

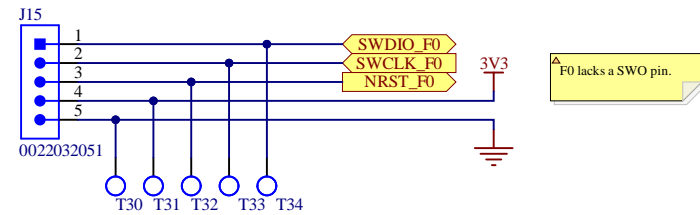


PPM Connector

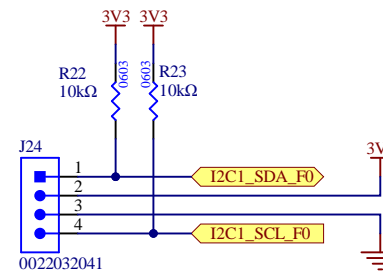


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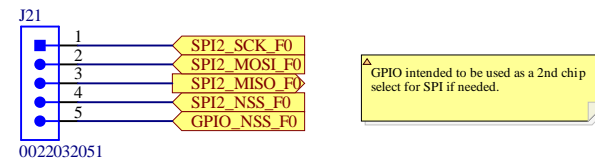
SWD/SWO Connector





I2C Connector



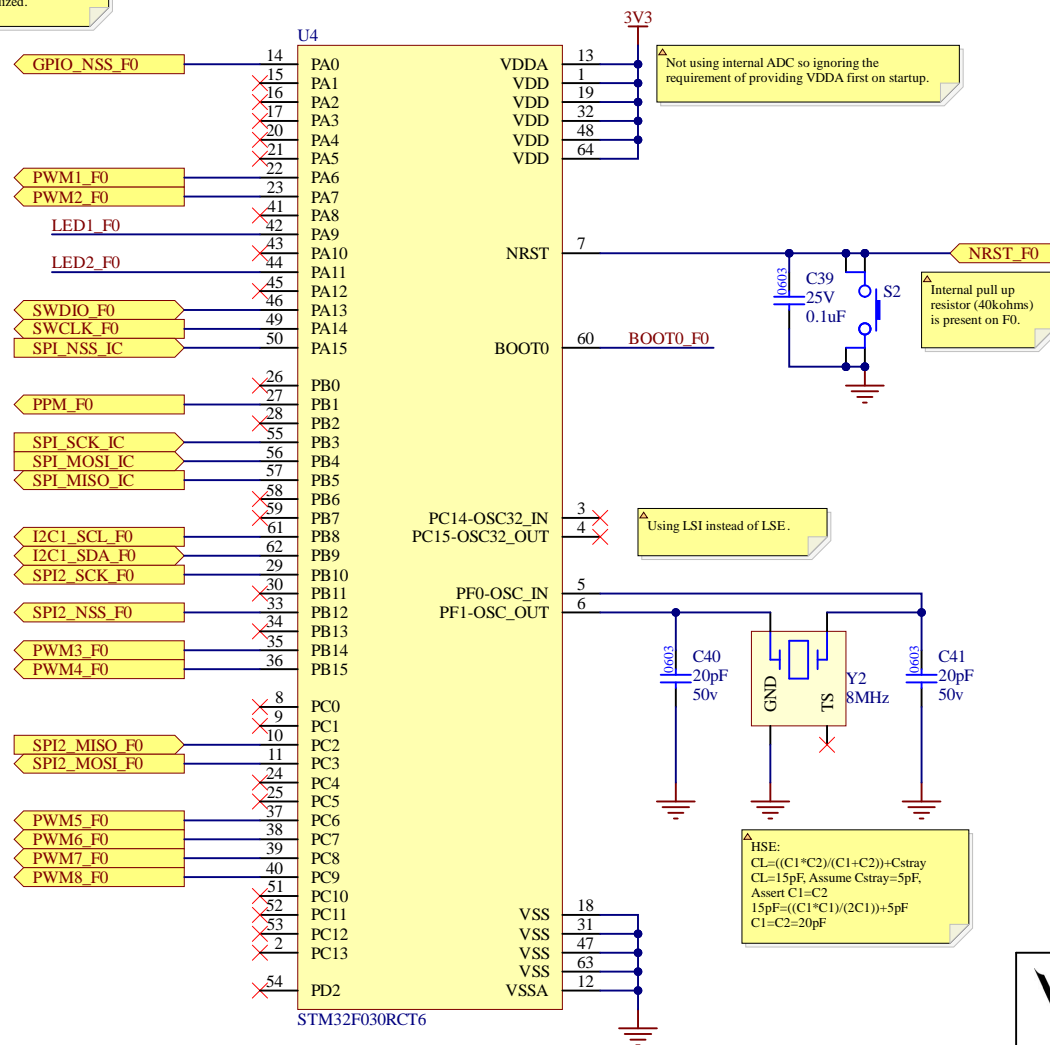
SPI Connector



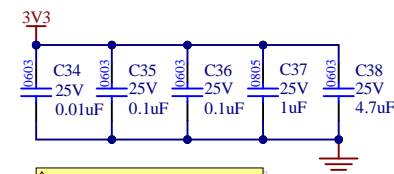
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PROJECT		REVISION		
Zeropilot 2.0.PrjPcb, [No Variations]		*		
DOCUMENT		MODIFIED		
F0Connectors.SchDoc		1/5/2022		
ENGINEER		REVIEWER		
Daniel Puratich		*		
		SHEET		8 OF 9



▲ Add notes detailing pinout once finalized.

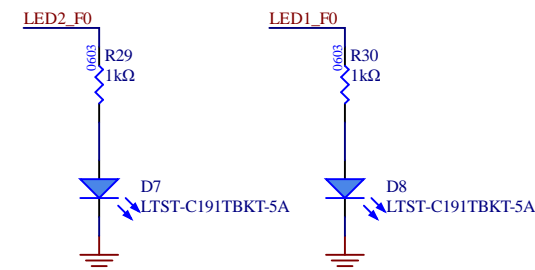


F0 Bypass Capacitors



▲ Decoupling capacitor placement guide is found in the datasheet on page 42 of the datasheet.

F0 Debugging LEDs



▲ $R = (3.3V - 2.8V) / (0.5mA) = 1k\Omega$

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 Daniel Puratich

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