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## REVISION INDEX

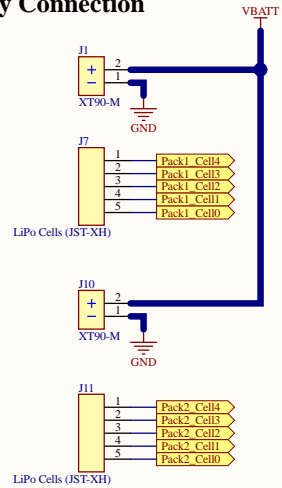
REV	DATE	PAGES	BY	DESCRIPTION OF CHANGES
I		All	Dhruvil Parikh	First Draft



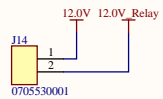
Block Diagram

Project:		200 University Ave W Waterloo, ON N2L 3G1, Canada
Title: <b>Block Diagram</b>		
DrawnBy: <b>Dhrumil Parikh</b>	Project Lead: <b>Dhrumil Parikh</b>	
Size: <b>T</b>	Rev:	
Date:	Sheet <b>2</b> of <b>6</b>	
File: <b>S2_Block_Diagram.SchDoc</b>		

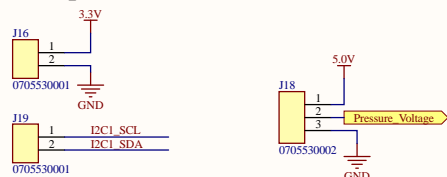
## Battery Connection



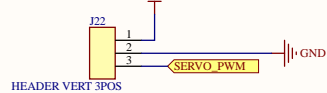
## ESTOP Connection



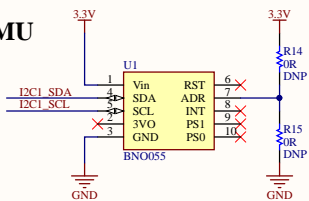
## Depth Sensor & Pressure Sensor



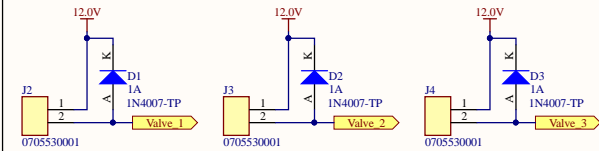
## Servo



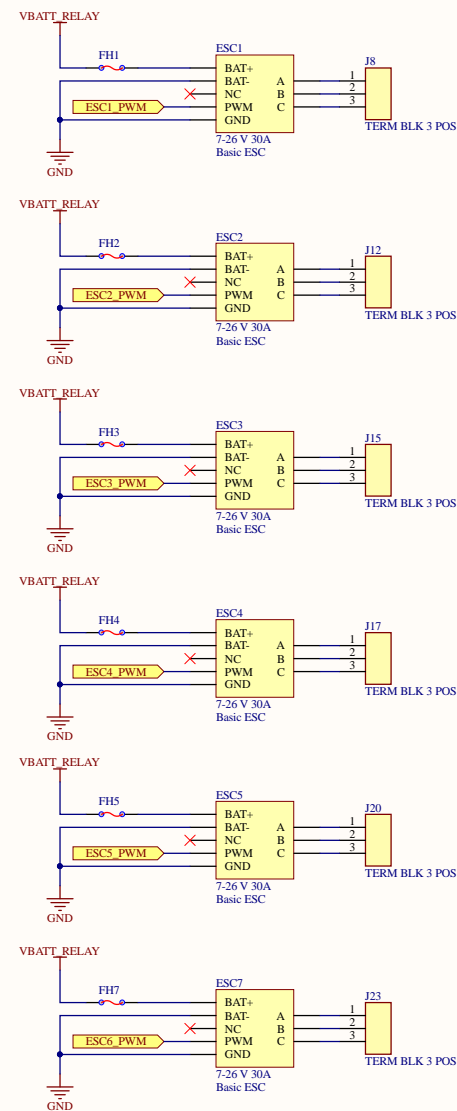
## IMU



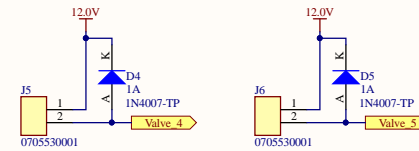
## Solenoid Valves (Interlock)



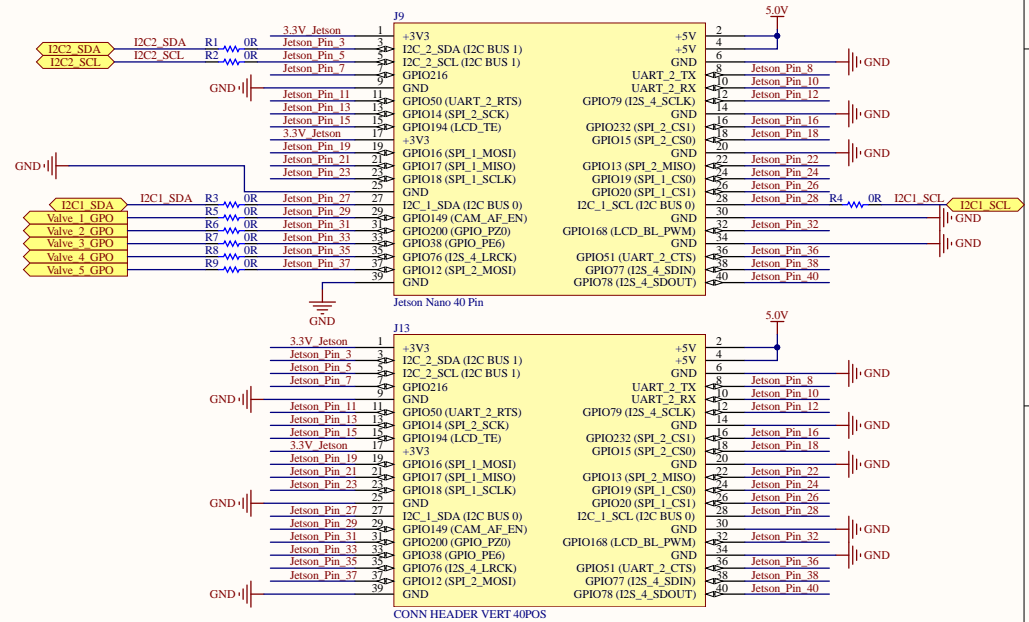
## ESCs




## Solenoid Valves (Single)



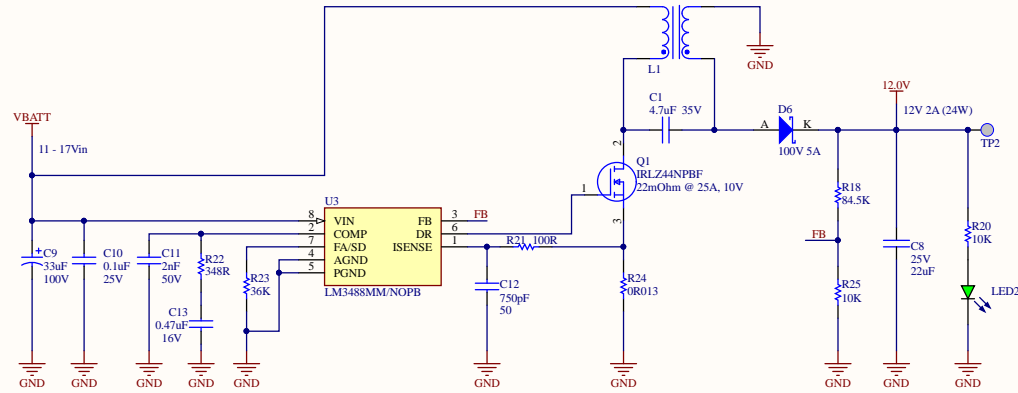
## Jetson Nano 40 Pin Interface



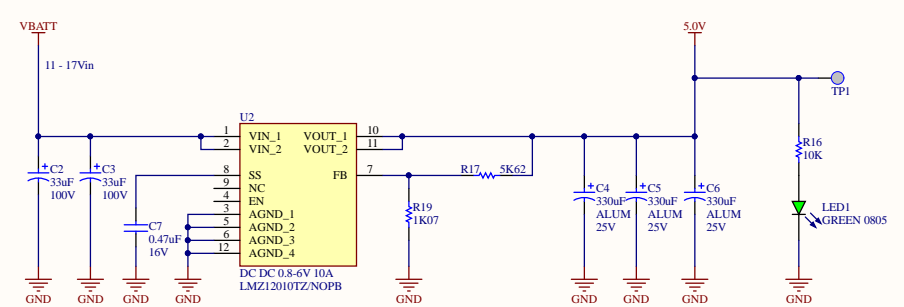
## Connectors

Project:		
Title: <b>Connectors</b>		
DrawnBy: Dhruvil Parikh	Project Lead: Dhruvil Parikh	
Size: T	Rev:	
Date:	File: S3 Connectors.SchDoc	
Sheet 3 of 6		200 University Ave W Waterloo, ON N2L 3G1, Canada

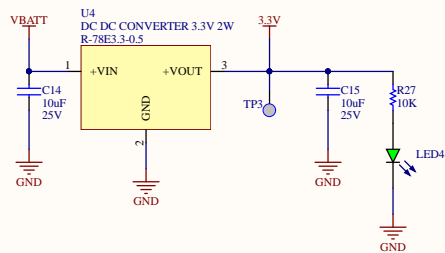
## 12.0V



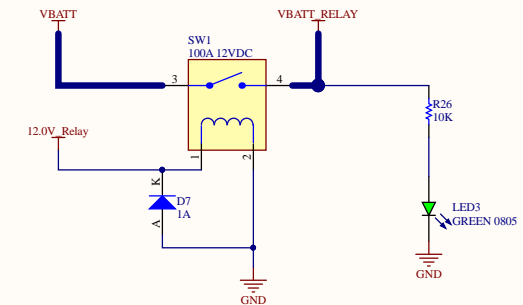
## 5.0V



## 3.3V



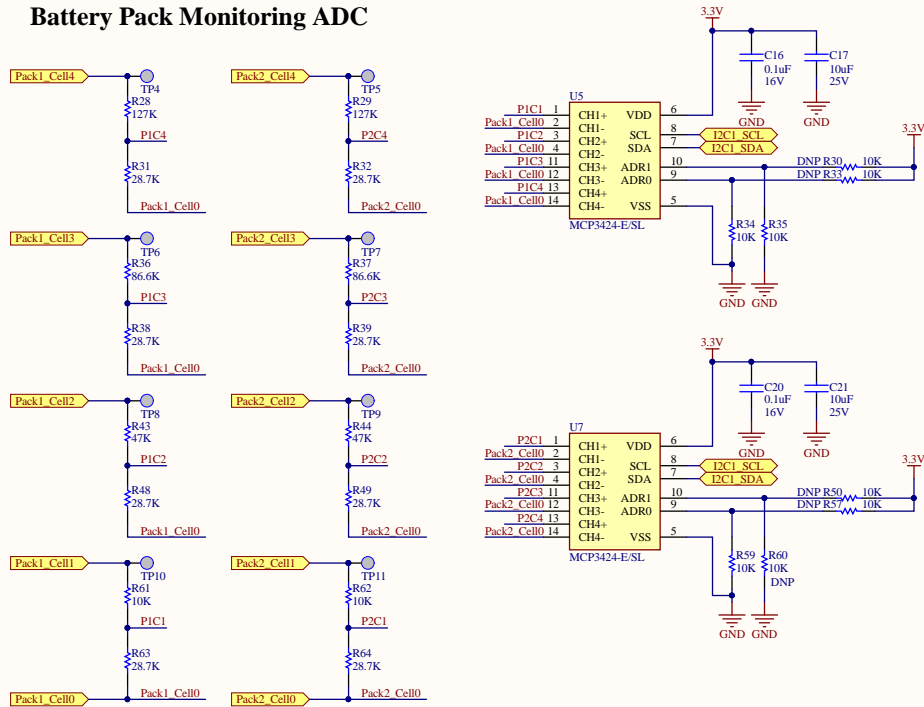
## Safety Relays



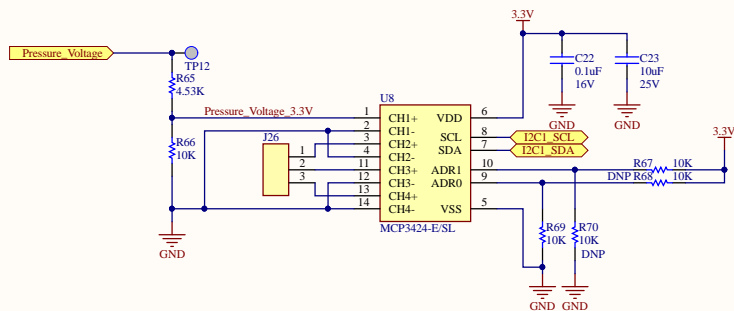
Project:			
Title: <b>Power Supply</b>			
DrawnBy: Dhrumil Parikh		Project Lead: Dhrumil Parikh	
Size: T	Rev:		
Date:		Sheet 4 of 6	
File: S4_Power_Supply_SchDoc		200 University Ave W Waterloo, ON N2L 3G1, Canada	



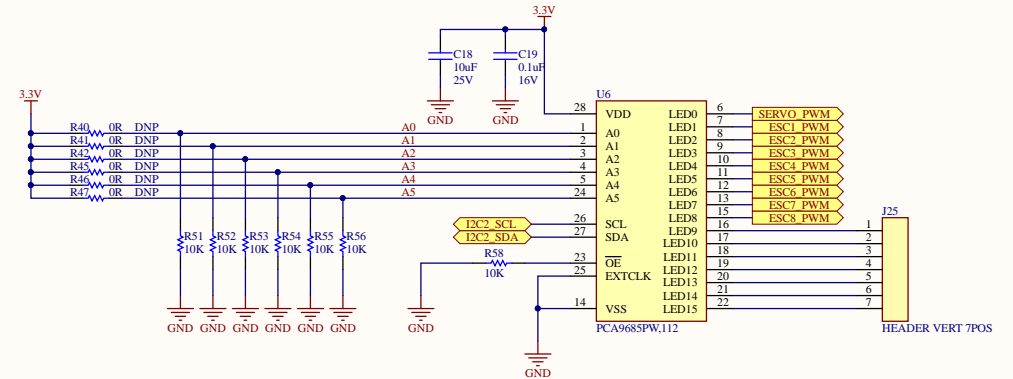
## Battery Pack Monitoring ADC



## Pressure Sensor ADC



## I2C -> PWM



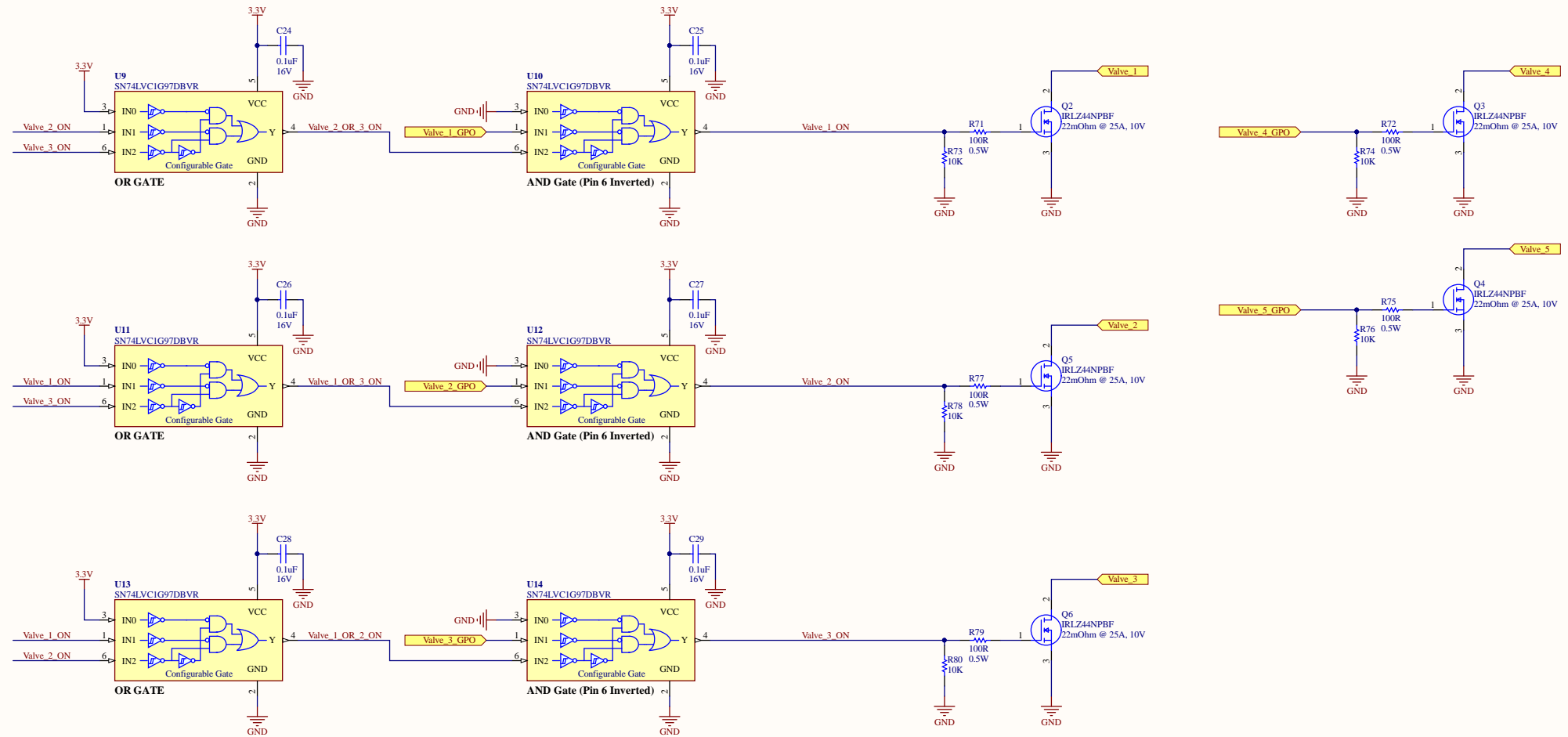
## Communications

Project:			
Title: <b>Communications</b>			
DrawnBy: Dhruvil Parikh		Project Lead: Dhruvil Parikh	
Size: T	Rev:		
Date:		Sheet 5 of 6	
File: SS Communications.SchDoc		200 University Ave W Waterloo, ON N2L 3G1, Canada	



## Solenoid Valve Interlock

### Solenoid Valve Interlock Circuit



Project:		200 University Ave W Waterloo, ON N2L 3G1, Canada
Title: <b>Solenoid Valve Interlock</b>		
DrawnBy: Dhruvil Parikh	Project Lead: Dhruvil Parikh	
Size: T Rev:		
Date:	Sheet 6 of 6	
File: S6 Solenoid Valve Interlock.SchDoc		

