

Add a risk assessment table to your log book, starting on page 129, and continuing towards the front of the book, as needed. List up to three risks per page and use this format:

129 RISK #	DESCRIPTION OF RISK	IMPACT TO THE PROJECT	LIKELIHOOD	SERIOUSNESS	GRADE	DATE(S) ASSESSED
1						
	MITIGATION STRATEGY:					
	RESOLUTION:					
2						
	MITIGATION STRATEGY:					
	RESOLUTION:					
3						
	MITIGATION STRATEGY:					
	RESOLUTION:					

Add risks as they are identified and include likelihood, seriousness and grade using the criteria at the end of this pdf.

129 RISK #	DESCRIPTION OF RISK	IMPACT TO THE PROJECT	LIKELIHOOD	SERIOUSNESS	GRADE	DATE(S) ASSESSED
1	The power consumption of the ESP32 module may be more than the 220 mW calculated based on our expected features used.	Excessive power consumption could shorten battery life and prevent our 72 hour mission goal from being achieved	M	H	B	9/30
	MITIGATION STRATEGY: Use an external RTC to completely shutoff the ESP32 between measurements rather than placing it into sleep mode.					
	RESOLUTION:					
2	We may have to switch to the I2C version of our sensor if the SPI version remains out of stock. We don't need to purchase until March.	The microcontroller has mappable IO, so no hardware changes are needed, but our SPI driver would have to be modified.	M	M	C	9/30
	MITIGATION STRATEGY: Begin driver development in November if this remains an issue					
	RESOLUTION:					
3						
	MITIGATION STRATEGY:					
	RESOLUTION:					

Reassess Weekly, and update the likelihood, seriousness, and grade as needed

129	RISK #	DESCRIPTION OF RISK	IMPACT TO THE PROJECT	LIKELIHOOD	SERIOUSNESS	GRADE	DATE(S) ASSESSED
1		The power consumption of the ESP32 module may be more than the 220 mW calculated based on our expected features used.	Excessive power consumption could shorten battery life and prevent our 72 hour mission goal from being achieved	M H	H H	B A	9/30 10/7 10/14 10/21
		MITIGATION STRATEGY: Use an external RTC to completely shutoff the ESP32 between measurements rather than placing it into sleep mode.					
		RESOLUTION:					
2		We may have to switch to the I2C version of our sensor if the SPI version remains out of stock. We don't need to purchase until March.	The microcontroller has mappable IO, so no hardware changes are needed, but our SPI driver would have to be modified.	M	M	C	9/30 10/7 10/14 10/21
		MITIGATION STRATEGY: Begin driver development in November if this remains an issue					
		RESOLUTION:					
3							
		MITIGATION STRATEGY:					
		RESOLUTION:					

If a risk is realized or eliminated, make a final update to add a resolution and cross out the risk number.

129 RISK #	DESCRIPTION OF RISK	IMPACT TO THE PROJECT	LIKELIHOOD	SERIOUSNESS	GRADE	DATE(S) ASSESSED
1	The power consumption of the ESP32 module may be more than the 220 mW calculated based on our expected features used.	Excessive power consumption could shorten battery life and prevent our 72 hour mission goal from being achieved	M H	H H	B A	9/30 10/7 10/14 10/21
	MITIGATION STRATEGY: Use an external RTC to completely shutoff the ESP32 between measurements rather than placing it into sleep mode.					
	RESOLUTION: Testing showed this issue was real, so mitigation will be used to eliminate the risk.					10/28
2	We may have to switch to the I2C version of our sensor if the SPI version remains out of stock. We don't need to purchase until March.	The microcontroller has mappable IO, so no hardware changes are needed, but our SPI driver would have to be modified.	M	M	C	9/30 10/7 10/14 10/21 10/28
	MITIGATION STRATEGY: Begin driver development in November if this remains an issue					
	RESOLUTION:					
3						
	MITIGATION STRATEGY:					
	RESOLUTION:					

Grade				
	Seriousness			
		Low	Medium	High
Likelihood	Low	D	D	C
	Medium	D	C	B
	High	C	B	A

Recommended Action by Risk Grade	
Grade	Risk mitigation actions
A	Immediately identify and implement actions to reduce the likelihood and seriousness as a top priority.
B	Identify actions to reduce the likelihood and seriousness to implement as the risk become more likely/serious.
C	Identify actions to implement should the risk occur.
D	Monitor the risk for changes in the future.