Potential Failure Mode	Potential Failure Effect	Severity (1-10)	Potential Cause	Occurrence (1-10)	Controls	Detection (1-10)	Risk Priority Number
Buffer Fills Faster than Empties	Loses Data	7	Adding more items than removing	4	Buffer is a fixed size	3	84
Shorting Signal to Ground	Processor Failure	10	Oscope probes could touch multiple contacts	1	Soldered leads for probing to prevent having to probe on pins	1	10
Mismatched UART speeds	Incorrect Data	8	Terminal set up with incorrect buad rate	4	Terminal setup requires selection of baud rate	2	64
Cable Break	No communication	10	Overruse or gets caught	1	Care taken when plugging/unplugging dev board	1	10
No LED function	No visual application status	3	I/O pins not enabled on a new build	7	LEDs must be enabled in the GUI	2	42
Incorrect input	Data is not what was expected	6	Fingers on wrong keys	4	Keyboard has letters on it and can view terminal input	3	72