Potential Failure Mode		Potential Failure Effect		Severity	Potential Cause		Occurence	Controls		Detection	RPN
Damage of board due to blowing		Unpredictable behaviour of board		7	Keeping the board in fragile		4	Always use static shield		7	196
of MOSFET					environment(sta	atic electricity)					
Data Overflow o	f circular buffer	corrupts/lo	ost data	9	Not handling	n overflow	5	Check for overfl	ow and perform	4	180
Satu Systillow of circular buller		corrupts/iost data		<u> </u>	(not performing wrapping)			wrapping and use realloc		-	100
Disconection of	UART comm.	Since it stops communication		7	Unplugging the Board		3	Make sure the board is connected		3	168
		hence program stops						all the time and make a function			
								to exit in safe m	anner if disconc.		
Splling water	on the board	Damages t	he board	7	handling boar	rd with care	6	Covering board	with waterproof	2	84
(By accident)								ma	terial		
Using specia	l character	Doesn't print the i	nput in terminal	2	User typing non-	alpha numeric	5	Constraining t	the character to	3	30
					characters			only standard characters(ASCII)			
Incorrect E	Baud rate	Printing garba	ge values in	5	Mismatch between	n BUS clock and	5	Make sure term	ninal board rate &	1	25
		terminal			SYS clock			Code baud rate are same before			
								debu	ıgging		