Potential Failure Mode	Potential Failure Effect (what is the impact of the failure)	Severity (1-10) (how severe is the issue, 10=most severe)	• Potential Cause (what could make this happen)	Occurrence (1-10) (how frequently would this happen, 10=most frequent)	• Controls (What is in place to prevent either the cause or the failure)	Detection (1-10) (how hard is this error to detect, 10 = hardest)	• Risk Priority Number = Severity * Occurrence * Detection
Overflow of Text in Buffer	Output Error By Program error_buffer_full	10	Buffer Overflow	4	Resize Buffer Function	1	10
Incorrect Buad rate by PC	No output at all by program	5	MCUEXPRESS setting not configured properly	1	N/A	2	10
Buffer not initialized	Output Error By Program error_buffer_full	10	wrong use of registers	10	Kl25Z data sheet	10	10
UART not initialized	Output Error By Program error_buffer_full	10	wrong use of registers	10	Kl25Z data sheet	10	5
No Power Supply	No response by program.	1	not connecting to KL25z properly	1	N/A	0	0
UART not configured properly	No response by program.	10	wrong use of registers	8	Kl25Z data sheet	10	10