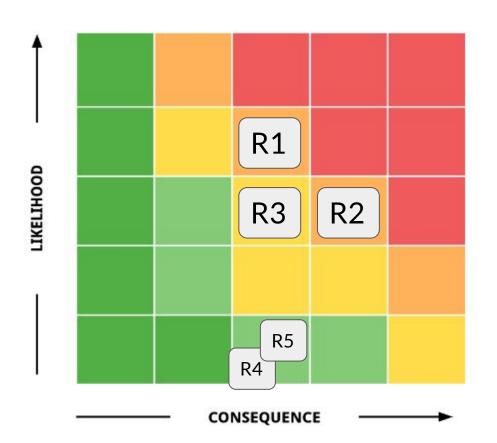
Risk ID	Risk	Reqt.	Туре	Cause	Mitigation	Likelihood	Consequence
		MF4, MF9	Technical	Battery drains too quickly	- Stay in close contact with Hello Robot - Get a backup battery before hand	4	4
R1	Hardware Failures			Firmware issues with specific hardware	- Rollback to previous firmware - Perform system factory reset	3	4
				Mechanical vibrations causes poor video feed	- Improve gimbal design - Implement Digital/Optical stabilization	4	1
R2	Slack in project schedule	MNF4	Schedule	Unavailability of team members due to personal reasons	- Reschedule activities - Reassign tasks - Weekly scrums	3	4
				Team members facing technical issues in their task	- Parallelize work by assigning people with less workload	3	3

Risk ID	Risk	Risk Reqt. Type Cause Mitigatio		Mitigation	Likelihood	Consequence	
R3	Insufficient MF1, MF2, compute power MF6		Technical	Heavy algorithms, underestimatio n of compute requirements	- Add a better onboard computer - Shift to cloud development - Reduce requirements - Simplify algorithms	3	3
R4	No support from Hello Robot	MNF4	Programmatic	NA	- Get help from FAIR and other collaborators using stretch	1	3
R5	Testing space becomes unavailable	MF3, MF4	Programmatic	NA	- Switch to backup environment - Continue development in simulators till switch is complete	2	4

S No	Risk	Cause	Mitigation	Likelihood	Consequence	Risk Exposure	Owner	Occured yet?	Need of Action still?	Risk Management effective? Cite reason
	Hardware Failure	Battery drains too quickly	- Stay in close contact with Hello Robot - Get a backup battery before hand - Keep it plugged in and continue development	4	4	16				Partly yes, because we were able to replace the fuse and
1		Firmware issues with specific hardware	- Stay in close contact with Hello Robot and previous team - Rollback to previous firmware - Perform system factory reset	3	4	12				buy backups almost instantly. We have constantly been in touch with the Hello Robot team to get quick insights onthe hardware issues we continue to face. We have also been able to fetch 2 Stretch RE1s from Prof Oliver Kroemer and been able to transfer grippers between them to get them to work.
		Mechanical vibrations causes poor video feed	- Improve gimbal design - Implement Digital/Optical stabilization	5	1	5	Shivam	Yes	Yes	

S No	Risk	Cause	Mitigation	Likelihood	Consequence	Risk Exposure	Owner	Occured yet?	Need of Action still?	Risk Management effective? Cite reason
		Battery drains too quickly	- Stay in close contact with Hello Robot - Get a backup battery before hand - Keep it plugged in and continue development	4	4	16				Partly yes, because we were able to replace the fuse and
	Hardware Failure	Firmware issues with specific hardware	- Stay in close contact with Hello Robot and previous team - Rollback to previous firmware - Perform system factory reset	3	4	12				buy backups almost instantly. We have constantly been in touch with the Hello Robot
1		Mechanical vibrations causes poor video feed	- Improve gimbal design - Implement Digital/Optical stabilization	5	1	5	Shivam	Yes	Yes	team to get quick insights on the hardware issues we continue to face. We have also been able to fetch 2 Stretch RE1s from Prof Oliver Kroemer and been able to transfer grippers between them to get them to work.

Risk Likelihood-Consequence Table



R1: Hardware failures

R2: Slack in project schedule

R3: Insufficient compute power

R4: No support from Hello Robot

R5: Testing space is unavailable