GENERAL RISK ASSESSMENT TEMPLATE



Work area / operation	Dobot Magician (aka. Brobot)	Assessors name	ne Sanjid Mahmood Hamim, Omar Malek		mar Malek
Assessors' Signature:	And Omar Malok			Date	19/10/2019

ACTIVITY	ASSOCIATED HAZARDS	INHERENT RISK	CONTROL MEASURES -	TARGET DATE	RESIDUAL RISK LEVEL
Electrical Short Circuit	Electrical components, like the motors at each joint, may malfunction.	B	Physical contact with the required gear and only authorized personnel is allowed.	20/10/2019	5
Mid-operation handling of the Dobot	Dobot operates autonomously according to given specifications, thus mainly unaware of the environment. Having various end-effector, sometimes with sharp edges, is a hazard.		Any experiment on the robot will be conducted from a safe distance. And simulation will also be double-checked by the supervisor before implementing on the Dobot.	20/10/2019	6
Using 3D Printing Module	Heating rod heats up to 250°C.	rod may result into severe skin	3D printing module will not be used on this project. If used, operation of the Dobot will be conducted inside a safety cage.	Not Planned	3
Using Laser Module of the Dobot Magician	Eye or skin are exposed to direct radiation while using Laser Module.	Direct Radiation can result in	This feature is not intended to be used. Though wearing safety googles and operating from a safe distance if the module is used will mitigate the problem.	Not Planned	4

Supervisor approval of assessment		I am satisfied that the residual risk with existing controls is acceptable ☐Yes ☐No OR I am satisfied that that the proposed controls will reduce risk to an acceptable level. ☐Yes ☐No				
Supervisors Name	Gavin Paul		Signature	Date		