2020/21 **Engineering Management** EEEN 20051 Project Planning Coursework: Team Gantt Chart and Risk Register Submitting student info. Number ESP Group Name Task Name 19 days? Tue 20/10/2(Fri 13/11/20 Tue 20/10/2(Fri 23/10/20 Motor characterisation lab 4 days Gather results and draw appropiate g4 days Tue 20/10/20Fri 23/10/20 ALL Mon 26/10/2Fri 13/11/20 Report writing 14 days Mon 26/10/2Fri 30/10/20 3 ALL ALL Review 1st darft and work through 5 days Fri 06/11/20 5 02/11/20 Report 1 final draft deadline 0 days Mon 09/11/2 Mon 09/11/26 Design Report 1 Deadline (@1pm) 0 days Fri 13/11/20 Fri 13/11/20 7 13/11 sign Report 2 29 days? Tue 03/11/2(Fri 11/12/20 Tue 03/11/2(Fri 06/11/20 Motor characterisation lab 4 days Gather results and draw appropiate g4 days Tue 03/11/20Fri 06/11/20 Wed 04/11/2Fri 11/12/20 Report writing 28 days? 9 days Tue 03/11/20 Fri 13/11/20 Tue 03/11/20Fri 13/11/20 Write code flowchart for sensors soft 9 days Mohammad Ali Draw circuit diagram for line sensor c9 days Make 1st draft of report 2 5 days ALL Mon 16/11/2 Fri 20/11/20 11,13,14 Review 1st darft and work through 6 days 23/11/20 30/11/20 Review 1st draft and work through 5 days ALL 01/12/20 07/12/20 08/12 Report 2 final draft deadline 0 days Tue 08/12/20Tue 08/12/2018 ₹08/12 Design Report 2 Deadline (@1pm) 0 days Tue 08/12/20Tue 08/12/2019 Blackboard Quiz 1 5 days Mon 14/12/2 Fri 18/12/20 1,9 ALL Mon 21/12/2 Mon 21/12/21,9,21 ALL \$ 21/12 0 days Peer review form deadline (@1pm) Mon 07/12/2Fri 19/02/21 Mon 07/12/2 Fri 05/02/21 Manage budget for buggy parts 45 days Ibrahim Albrashd Write draft for proposal Mon 08/02/2Fri 12/02/21 24 Mon 15/02/2Mon 15/02/225 Proposal Draft deadline 0 days Proposal deadline (@12pm) 0 days Fri 19/02/21 Fri 19/02/21 26,1,12 Software development lab 5 days Mon 22/02/2Fri 26/02/21 Zhengyi Zhao Write code from flowchart 4 days Mon 22/02/2Thu 25/02/2114 Zhengyi Zhao Zhengyi Zhao test that program functions as intended 1 day Fri 26/02/21 Fri 26/02/21 29 Zhengyi Zhao Mon 22/03/2Fri 09/04/21 28 15 days? Fri 26/03/21 15 Jiangsheng Wang Design circuit on protype board and 5 days Jiangsheng War Design circuit on a PCB 10 days Mon 29/03/2Fri 09/04/21 32 Jiangsheng Wan Hardware development lab 5 days Mon 12/04/2Fri 16/04/21 Review chassis design and check that its 1 day Mon 12/04/2 Mon 12/04/213 Ahmed Omara build chassis from CAD design 4 days Tue 13/04/21Fri 16/04/21 35 Ahmed Omara Technical demonstrations 45 days? Mon 01/03/2Fri 30/04/21 TD1 - Motor Control 16 days Mon 01/03/2Mon 22/03/228 ΔII Demonstrate motor control in lab 5 days Mon 01/03/2 Fri 05/03/21 Last chance to change gearbox ratio 1 day Mon 08/03/2 Mon 08/03/239 ALL ALL Mon 12/04/2Fri 16/04/21 38 31 TD2 - Sensors 5 days TD3 - Control/Steering Mon 19/04/2 Fri 23/04/21 41 ALL 5 days ALL TD4 - Heats/Race 5 days Mon 26/04/2 Fri 30/04/21 42 Final PCB Submission (@12pm) 0 days Fri 16/04/21 Fri 16/04/21 28 45 Laser cutting and order submission (@12p0 days Fri 23/04/21 Fri 23/04/21 44,34 46 Blackboard quiz 5 days Mon 26/04/2Fri 30/04/21 28,31,34 ALL ALL Submit text for prizes 6 days Mon 19/04/2 Mon 26/04/2 Fri 07/05/21 Fri 07/05/21 43 48 Peer review form deadline (@1pm) 0 days Return the parts of the buggy Mon 10/05/2Thu 13/05/21 50 Final report 5 days Fri 07/05/21 Fri 14/05/21 Final report draft deadline 0 days Fri 07/05/21 Fri 07/05/21 28,31,34,37 07/05 Final report deadline 0 days Fri 14/05/21 Fri 14/05/21 51 \$ 14/ Project: EEEN21000 Embedded Milestone Date: Mon 02/11/20 Page 1



RISK REGISTER FOR EMBEDDED SYSTEMS PROJECT

Group Number:		1	Submission Date:	05/11/2020			
Group Members:	Ahmed Omara	Xavier Millican	Ibrahim Albrashdi	Mohammad Ali	Zhao Zhengyi	Wang Jiangsheng	

Project Risk	Severity		Potential		al	Score (Severity x Potential)	Mitigation Measures	Owner	
		М	Н	L	М	Н	L=1, M=2, H=3		
Water damage to circuit							6	Have no liquids near the electronics	Student
Overload motor with high current, causing motor to overheat							2	Limit the current to the motor	Student
Fumes while soldering							6	Have a proper ventilation while soldering	Student
Tripping over obstacles in the lab							2	Remove obstacles from walking path	Student
Damaging buggy by dropping it							2	Handle buggy carefully	Student
Delay in ordering parts							4	Order parts early	University of Manchester
Risk of contracting coronavirus							3	Practice social distancing and wear face covering	Environment
Faulty motor							2	Learn skills when they are needed	University of Manchester
Lack of skills/knowledge							2	Research more	Student
Weather on test day affecting test							1	Check forecast	Environment
Limit in resources							2	Collect resources prior to building	University of Manchester
Lack of communication							3	Attempt to communicate well as a team - bonding	Student
Collision of the buggy with another buggy							1	Do not simultaneously race buggies	Student
Improper construction of buggy							2	Check buggy works well and test	Student
Burns from soldering iron							4	Don't hold the soldering iron tip and wear gloves	Student

We confirm that all group members participated in the production of this risk register: Yes