

DISSERTATION SUPERVISION LOGBOOK

Institute	Institute of Engineering and Transport
Programme	Bachelor of Engineering (Honours) in Control and Electronics Engineering
Dissertation	
Title	Tracking and Pose Estimation of a Robotic System using Computer Vision
Supervisor	Dr Ing. Jeremy Scerri
Student	Karl Spiteri
Student ID No	0294395M

Note

- I. It is the <u>student's responsibility</u> to ensure that this logbook is correctly documented and maintained, and that Supervisor recommendations and signatures are acquired after each and every meeting.
- II. This logbook is to be submitted together with the dissertation.
- III. The institute reserves the right <u>to not accept</u> the student's dissertation for evaluation if this logbook is <u>not filled in correctly</u> and <u>duly signed</u> by the student and supervisor as indicated.



Meeting Number : 1	Date of meeting : 22/03	3/22
Issues discussed at the meeting (to be filled in by Student)		
- First meeting talked about SOI & Di	ssertation Title.	
- Discussed couple of Al related titles	then talked about what research t	to do for SOL
- Also discussed how to fill in the SOI		
Supervisor recommendations (to be fille	ed in by Supervisor)	
- Suggested Dissertation Titles.		
- Suggested Research for SOI.		
- Guided on filling the SOI.		
C C		
Date of Next Meeting	Student Signature	Supervisor Signature
	tudent Signature	Supervisor Signature
21/10/22		



Meeting Number : 2	Date of meeting :	21/10/22		
Issues discussed at the meeting (to be filled in by Student)				
- Talked about how to tackle pose	estimation.			
- Discussed TensorFlow models.				
- Discussed which robot to use.				
Curamian recommendations (to be f	illad in hu Cunamiaan			
Supervisor recommendations (to be fa	mea in by Supervisor)			
 Suggested to use kinematics using matrices from ArUco Markers. 				
- Suggested SSDs model building.				
- Suggested use of either Omni Wheel Robot or Robotic Arm.				
Date of Next Meeting	Student Signature	Supervisor Signature		
28/10/22				
20/10/22				



Meeting Number : 3		Date of meeting: 28/10/	/22		
Issue	Issues discussed at the meeting (to be filled in by Student)				
-	- Discussed use of ArUco Markers for distance measurement.				
-	Discussed how to position marke	rs and how	many markers to use.		
-	- Continued robot choice discussion, mentioned that robotic arm has more of a use case in the industry.				
Super	Supervisor recommendations (to be filled in by Supervisor)				
- Agreed that ArUco Markers would be used for distance measurement.					
- Suggested to encompass all joints with markers on each side.					
-	- Agreed with use of the robotic arm.				
Date o	f Next Meeting	Student Sig	gnature	Supervisor Signature	
11/11/	11/11/22				





Meeting Number : 4	Date of meeting : 11/1	1/22	
Issues discussed at the meeting (to be filled in by Student)			
- Discussed about qualitative approach se	emed appropriate.		
Supervisor recommendations (to be filled in	by Supervisor)		
	, oup of 1.00.		
Agraad			
- Agreed.			
Date of Next Meeting Student	at Cianoturo	Cuparticar Cianatura	
	t Signature	Supervisor Signature	
25/11/22			



Meeting Number : 5	Date of meeting : 25/11/22			
Issues discussed at the meeting (to be filled in by Student)				
- About paper reference sourcing cause not a	ways find what I need from IEEE.			
Companie on management delicate (45 ha filled in har	Demonstration of			
Supervisor recommendations (to be filled in by	Supervisor)			
- Suggested to also use Google Scholar.				
Date of Next Meeting Student S	gnature Supervisor Signature			
02/12/22				





Meeting Number : 6		Date of meeting: 02/12/	22	
Issues discussed at the meeting (to be filled in by Student)				
- Discussed if tape marker or do a c	ustom desi	gned solution to place mar	ker more accurately.	
Supervisor recommendations (to be file	led in by S	upervisor)		
- Agreed on custom made holders.				
Date of Next Meeting	Student Sig	ınaturo	Supervisor Signature	
	Student Sig	Jiiatui 6	oupervisor orginature	
19/04/23				



Meeting Number : 7	Date of meeting : 19/04	23	
Issues discussed at the meeting (to be filled in by Student)			
- Design tips for 3D design.			
- Position of webcam feed.			
Supervisor recommendations (to be fille	ed in by Supervisor)		
- Gave suggestions.			
- Suggested view at eye level.			
Date of Next Meeting	Student Signature	Supervisor Signature	
21/04/23			
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Meetir	ng Number : 8		Date of meeting: 21/	04/23
Issues discussed at the meeting (to be filled in by Student)				
-	Asked for documentation of robot	ic arm.		
-	Showed progress of 3D design.			
Super	visor recommendations (to be fi	lled in by S	upervisor)	
-	Mentioned available online.			
-	Good make small as possible to a	avoid collisio	n.	
Date o	f Next Meeting	Student Sig	ınature	Supervisor Signature
05/05/	23			
				1



Meeting Number : 9		Date of meeting: 05/05/	23		
Issues discussed at the meeting (to be filled in by Student)					
- Discussed use of offsetting marke	- Discussed use of offsetting markers to avoid occlusion as much as possible.				
- Discussed making holders modula	ar as possib	le in case of reprint to red	uce time.		
Supervisor recommendations (to be filled in by Supervisor)					
- Agreed still need to consider some logic to avoid occlusion in code.					
- Agreed also suggested use white for better marker detection results.					
Data of Nové Mosting	Other City		Cumamiaan Circastura		
Date of Next Meeting	Student Sig	jnature 	Supervisor Signature		
26/05/23					



Meeting Number : 10 Date of meeting : 26/05/23		
Issues discussed at the meeting (to	be filled in by Student)	
- Discussed documentation whe	re to place certain things did.	
- Discussed the presentation of	final output.	
- Mentioned that scrap the idea	of using pi due to limitations.	
Supervisor recommendations (to be	filled in by Supervisor	
Supervisor recommendations (to be	; Illied III by Supervisor)	
- Guided		
- Agreed.		
- Agreed and guided how to mer	ntion it in the dissertation.	
Date of Next Meeting	Student Signature	Supervisor Signature
N/A		