

Annex. D

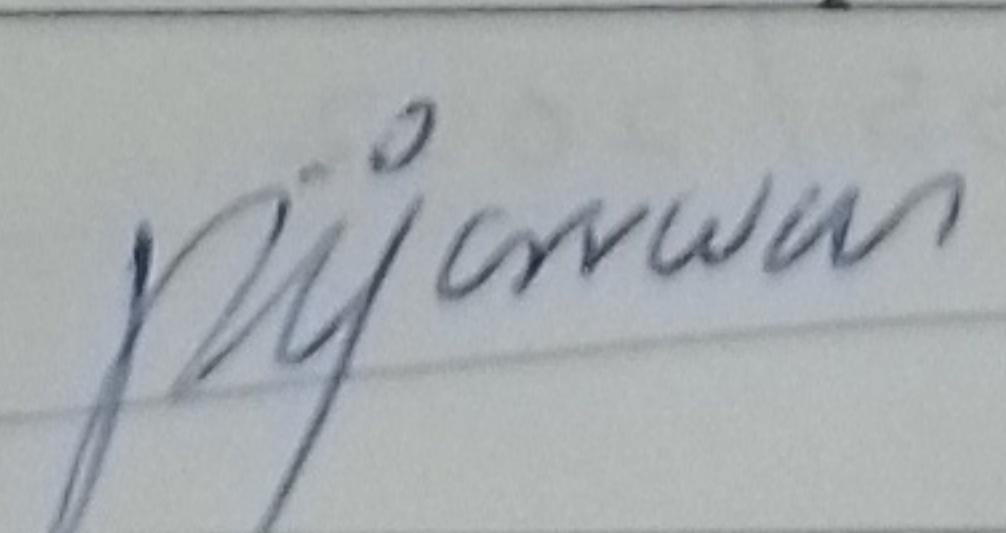
FOUR - WEEKLY CONTINUOUS ASSESSMENT REPORT
 (Please Refer Section 9, page 5 of Training Guideline Book for details)

#	Report Details							
1	Report Number	1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	
2	For the Duration	From	31	01	2022	To	27	02

#	Undergraduate's Details											
1	Name as per Register	Mr. / Ms. THALAGALA Bo Po										
2	Index Number	180631J										
3	Discipline	BM <input type="checkbox"/> CH <input type="checkbox"/> CE <input type="checkbox"/> CS <input type="checkbox"/> EE <input type="checkbox"/> EN <input checked="" type="checkbox"/> ER <input type="checkbox"/> ME <input type="checkbox"/> MT <input type="checkbox"/> TL <input type="checkbox"/> TT <input type="checkbox"/>										
4	Contact Phone Number	0750296594										
5	Email	180631j@uom.lk										
6	Personal Address During	326/2, Kandahena, Dedigamowa										

#	Training Provider Details											
1	Training Provider's Name	L.E. Robotics (Pvt) Ltd.										
2	Address of Corporate Office	100/4, Divulapitiya Rd, Minuwangoda.										
3	Address of Worksite	100/4, Divulapitiya Rd, Minuwangoda.										
4	Nearest City to Worksite	Minuwangoda.										
5	Name of Supervisor	J.A.L. Jagasinghe										
6	Supervisor Position	Engineer In-Charge										
7	Supervisor Phone No.	077-271 6181										
8	Email	laknij@ierobotics.lk										

Important Note!											
A summary of undergraduate's work experience during the considered four (04) weeks period to be attached along with this duly filled Annex. Highlight any shortcomings, problems that the undergraduate experienced, if there were any, for the purpose of improving. Finally, make sure to attach completed assessment by the Supervisor (see overleaf).											

Endorsement by the Undergraduate			
Signature of Undergraduate		Date	01/03/2022

Annex. D (contd.)

Supervisor's Assessment on Undergraduate						
[rate on a scale from 1 (Disagree) to 5 (Agree)]						
A	Behavioral:	1	2	3	4	5
1	Thinks independently	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Takes initiatives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Reliable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Organized and manages time well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Results oriented	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Ability to learn from all levels of workers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Adaptability to different environments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Open to different opinions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Ready to seek assistance when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Communicates well in all formats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B	Technical:	1	2	3	4	5
1	Knows fundamentals related to work assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Able to apply fundamentals to practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Able to analyse and troubleshoot problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Engages modern tools and techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Develops related hands on skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Concerned with quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Performs work in a safe manner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Develops skills in planning & implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Understands costs & benefits relationships	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Understands business operations in local & global context	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C Any Other Remark:						
Satisfactory. Can improve further with experience in the industrial environment.						
D	No. of Days of leave during 4-week period:	Authorized	<input type="radio"/>	Unauthorized	<input type="radio"/>	
E	Endorsement by the Supervisor:					
1	Name of the Supervisor	J. A. L. Jayasinghe	Official Stamp	L.E. ROBOTICS (PVT.) LTD.		
2	Position					
3	Signature					
4	Date	09/05/2022				

Summary of work experience : Report no: (2)

From: 31/01/2022 To 27/02/2022.

As a continuation of the work carried out in the first four weeks, I was instructed to make the necessary changes to a program written in general purpose "C" language, to suit a microcontroller. (Microcontroller is a tiny computer fabricated on a single metal oxide integrated circuit chip). In contrast to a usual personal computer, these microcontrollers have very low system specifications, in terms of memory / processing power and etc.

Due to that, a different set of technical skills are required to work with those tiny computers. The first week of the second four weeks was dedicated to acquire and improve some of those skills. Because getting the most out of these tiny computers is crucial when it comes to an embedded system development.

It was observed that the performance of these microcontrollers are no way near the expectations of the real time system that I was assigned to design.

Therefore, the focus was then given towards "Raspberry Pi" single board computers. (Complete computers built on a single circuit board, with microprocessors, memory, input / output peripherals and etc.)

In contrast to aforementioned micro controllers, these (SBC) Raspberry Pi type single board computers have quite greater system specifications, which make them ideal for prototype development. Therefore it was later decided to stick with "Raspberry Pi" SBC for further development of the system. (computer vision based real time trajectory generation: the task allocated at initial phase of industrial training.) However, when it comes to industrial product development, these Raspberry Pi's have various drawbacks. These drawbacks were discussed with the supervisor ~~and~~ ~~and~~ and it was realized, how hard it is to choose a proper hardware development platform for an industrial level project.

When it comes to "computer vision" ~~interactions~~ based applications, (as it is obvious) there must be an associated video / image capturing device to get a video stream / set of images of the environment. However, due to the internal works of a camera, these captured images / videos can not be ^{directly} used, for useful industrial application. Therefore, what is known as "camera calibration" process is done prior to any computer vision task. Last week of second four-weeks was spent studying the concept of that.