



**UNIVERSITI KUALA LUMPUR
BRITISH MALAYSIAN INSTITUTE**

**FINAL YEAR PROJECT
PROJECT PROGRESS REPORT
FYP 2**

Project Title:	Enhancing Road Safety: white line and plate number detection powered by YOLOV8
Student Name:	Muhammad Ikhwan Syafiq Bin Norsham
Student ID:	5122122115
Supervisor:	Ts. Dr. Izanoordina Binti Ahmad

WEEK 1

Date: 13 March 2024

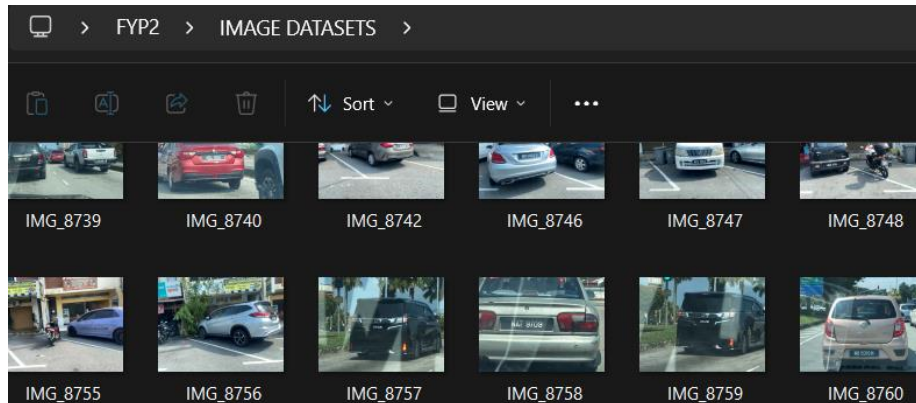
Title:

Plate number datasets

Objectives:

1. Collecting plate number datasets
2. Updating to my Supervisor

Content / Activity / Task:



Result / Discussion:

The results of this week, been collected 500 plate numbers for datasets

Conclusion:

Have reached the target given by supervisor which is to collect 500 images of plate numbers

Next week plan:

Training plate numbers in YOLOV8 and tests running

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 2

Date: 20 March 2024

Title:

Training plate numbers in YOLOV8 and tests running

Objectives:

1. Combined the trained model into the CV2

Content / Activity / Task:

Combined the trained model into the cv2 system with a confidence of 0.8, the system can detect the letters and numbers written on the plate number but there is a problem that it cannot save it to any platform.

Result / Discussion:

The results of combination, this system achieved to detect plate number with 0.8 confidence

Conclusion:

Doing more research on the other systems other than CV2

Next week plan:

Continued to do some research on others system

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 3

Date: 27 March 2024

Title:

Continued to do some research on others system

Objectives:

1. Asked for advice from Supervisor

Content / Activity / Task:

All References					
<input type="checkbox"/>	AUTHORS	YEAR	TITLE	SOURCE	
<input type="checkbox"/>	★ Lou H, Duan X, Guo J, Li...	2023	DC-YOLOv8: Small-Size Object Detection Algorithm Based on Camera Sensor	Electronics (Switze...	
<input type="checkbox"/>	☆ Sharma N, Baral S, Paing...	2023	Parking Time Violation Tracking Using YOLOv8 and Tracking Algorithms	Sensors	
<input type="checkbox"/>	☆ Pham T	2023	Effective deep neural networks for license plate detection and recognition	Visual Computer	
<input type="checkbox"/>	★ Sharma N, Baral S, Paing...	2023	Parking Time Violation Tracking Using YOLOv8 and Tracking Algorithms	Sensors	
<input type="checkbox"/>	★ Jacob Solawetz F	2023	YOLOv8 The Ultimate Guide		
<input type="checkbox"/>	★ Rouf A, Yu X, Wu H, Iwah...	2023	Real-time Vehicle Detection, Tracking and Counting System Based on YOLOv7	Embedded Self Or...	

‘Happy Fasting’

Result / Discussion:

Find some new method which is used Pytesseract OCR in my system

Conclusion:

Find new method to be combined with trained model to real-time capturing system

Next week plan:

Changed the system from CV2 to Pytesseract

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 4

Date: 3 APRIL 2024

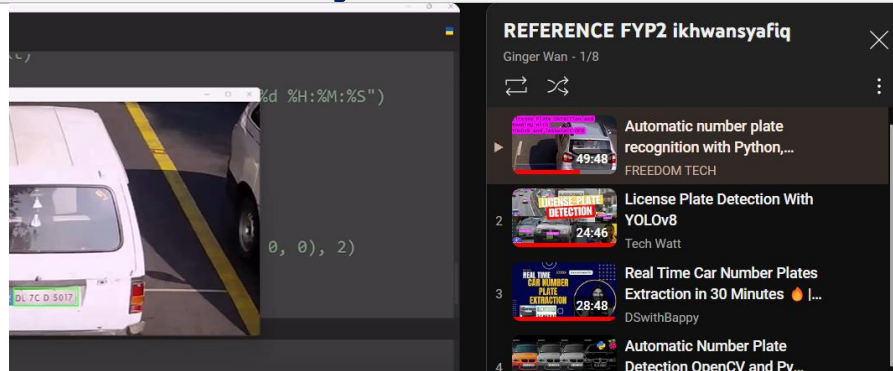
Title:

Changed the system from CV2 to Pytesseract

Objectives:

1. To do research more about Pytesseract
2. Refer Youtube about previous or similar project for reference

Content / Activity / Task:



Result / Discussion:

In this fourth week, had online classes for a week. Changed the system from cv2 to a system that uses Pytesseract OCR and can be saved in notepad. 'HAPPY EID'.

Conclusion:

The system that changed need more trained model to detected precisely

Next week plan:

Tested the system

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 5

Date: 17 APRIL 2024

Title:

Tested the system

Objectives:

1. To testing the system

Content / Activity / Task:

Continued by doing testing for this new system with first datasets with 95% precision

Result / Discussion:

The result doesn't meet expectation. This system achieves an average 50%

Conclusion:

Need more datasets for the system

Next week plan:

Adds more new plate number datasets

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 6

Date: 24 APRIL 2024

Title:

Adds more new plate number datasets

Objectives:

To collecting more plate number datasets

Content / Activity / Task:

This week 6, Trying to add more new plate number datasets for detection system to meet the objective of this system.

Result / Discussion:

The result that Roboflow achieve 95% precision

Conclusion:

Have some issues regarding the result of this system

Next week plan:

Met Supervisor to consult this project issues

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

Text here

WEEK 7

Date: 1 MAY 2024

Title:

Met Supervisor to consult this project issues

Objectives:

1. Updating problem with this detection system

Content / Activity / Task:

In this week, just met Supervisor Ts. Dr. Izanoordina via Microsoft Teams to update my problem with this detection system. 'Happy Labour Day'

Result / Discussion:

By discussion, tried new method which is changed High Spec Webcam Elgato

Conclusion:

Tried new method to improve this system

Next week plan:

Study about the problem to this project

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 8

Date: 8 MAY 2024

Title:

Study about the problem to this project

Objectives:

1. Do more research about the issues of this project

Content / Activity / Task:

This week, not in good condition; just continue with the study about the problems experienced with this system and update to Supervisor via telegram only.

Result / Discussion:

Continued study research paper

Conclusion:

Found several research papers related to this system

Next week plan:

Do Technical Paper

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

Text here

WEEK 9

Date: 15 MAY 2024

Title:

Do Technical Paper

Objectives:

1. Formatting Technical Paper
2. Proceed to do Technical Paper

Content / Activity / Task:

In this week, Supervisor informs all FYP2 students under her supervision to send technical paper on Wednesday next week corresponding to 29th of May 2024. 'Happy Teacher's Day'

Result / Discussion:

Continue to make technical paper as the Supervisor wants

Conclusion:

Technical paper has been completed up to chapter 5

Next week plan:

Testing this system with real environment

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 10

Date: 22 MAY 2024

Title:

Testing this system with real environment

Objectives:

1. Find a place or Traffic Light to run this system
2. Testing with a more sophisticated webcam

Content / Activity / Task:



Result / Discussion:

Continued testing this system with real environment and come to lab 3 to complete work such as slide fyp2, prototype and technical paper.

Conclusion:

This system still cannot detect precisely

Next week plan:

Mock presentation with Supervisor and get ready for Presentation Day

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 11

Date: 29 MAY 2024
Title:
Mock presentation with Supervisor and get ready for Presentation Day
Objectives:
1. To make mock presentation with Supervisor
Content / Activity / Task:
While presenting the detection system, this system has problems with coding and errors
Result / Discussion:
This week, the project had an error and asked Harith for help in coding and making a poster for the presentation day that will be held next week.
Conclusion:
This system was successfully fixed by Harith, one of the former students under the supervision of Ts Dr. Izanoordina
Next week plan:
Presentation Day
Supervisor Approval and Comment:
<input type="checkbox"/> Satisfied with student progress/work.
<input type="checkbox"/> Others:
Text here

WEEK 12

Date: 5 JUN 2024

Title:

Presentation Day

Objectives:

1. To present the final year project
2. To present the contents smoothly and well

Content / Activity / Task:



Result / Discussion:

Venue: Gemilang Hall

Time: 9a.m - 12p.m

The assessors are Ts. Ir Rafiuddin and Dr. Faezah. One is an industrial panel, and the other is a lecturer in the electronic section. Commented by Dr Faezah to improve this system by adding classes in the datasets.

Conclusion:

This day, everything went so smoothly

Next week plan:

Continue to Technical Report and Paper

Supervisor Approval and Comment:

☐ Satisfied with student progress/work.

☐ Others:

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WEEK 13

Date: 12 JUN 2024

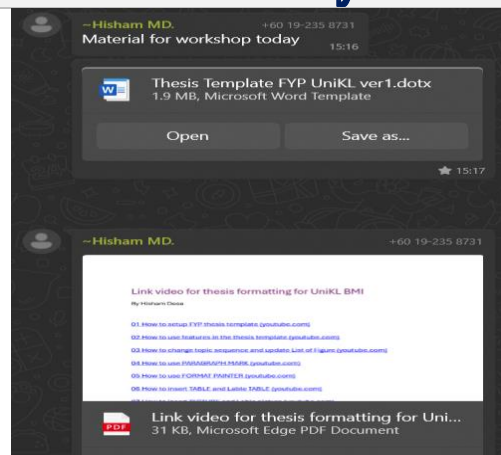
Title:

Continue to Technical Report and Paper

Objectives:

1. To refer to the Thesis Report format given by Sir Hisham
2. To settle Technical Report and Technical Paper

Content / Activity / Task:



Result / Discussion:

After following the format, the Technical paper is ready and will be sent to the Supervisor to check

Conclusion:

Technical papers need to be improved and need to be improved after being reviewed by the Supervisor

Next week plan:

Continue to settle down the Technical Reports and Paper due next week

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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WEEK 14

Date: 19 JUN 2024

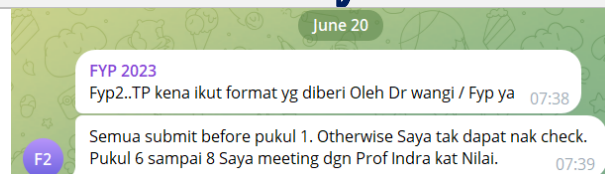
Title:

Continue to settle down the Technical Reports and Papers due next week

Objectives:

1. To continue making Technical Report and Paper
2. To complete Technical Report and Paper

Content / Activity / Task:



Result / Discussion:

The Technical Paper has been completed and is being reviewed.

Conclusion:

To be submit to Madam Azliza Mohd Arshad Email: azlizaa@unikl.edu.my on Friday 21/6/24

Next week plan:

Proceed to settle down Technical Report and will be sent to be bound into a hard cover.

Supervisor Approval and Comment:

☐ **Satisfied with student progress/work.**

☐ **Others:**

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Designed by:
FYP Committee