FACULTY OF COMPUTING





STATUS DOCUMENT 1

"TeaBot" – Tea plantation preservation using an intelligent robot.



STUDENT NAME: GUNAWARDANA I.I.E

STUDENT NUMBER: IT19973470

GROUP ID:2023-044

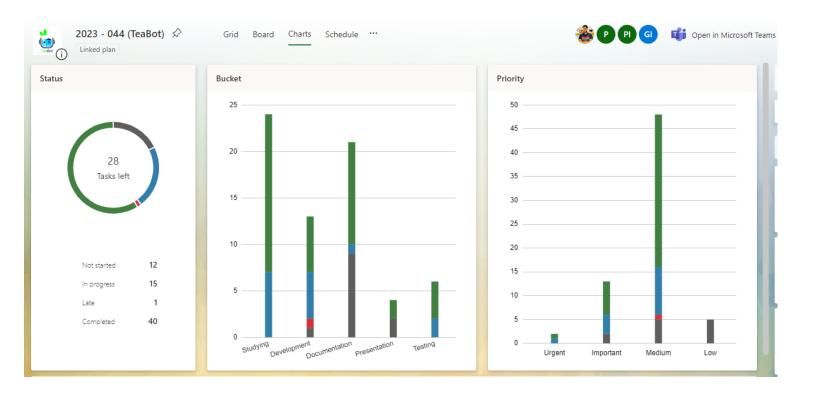
TABLE OF CONTENTS

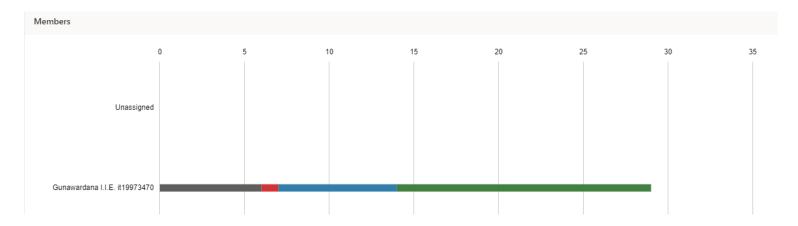
1	GANNT CHART	2
2	PROJECT VIEWS MS PLANNER	3
3	WORK BREAK DOWN STRUCTURE MS PLANNER	4
4	EMAILS, MEETINGS WITH SUPERVISOR, CO-SUPERVISOR	5
5	MS TEAMS AND CALLS	9
6	DEVELOPED PROTOTYPE	10

1 GANNT CHART

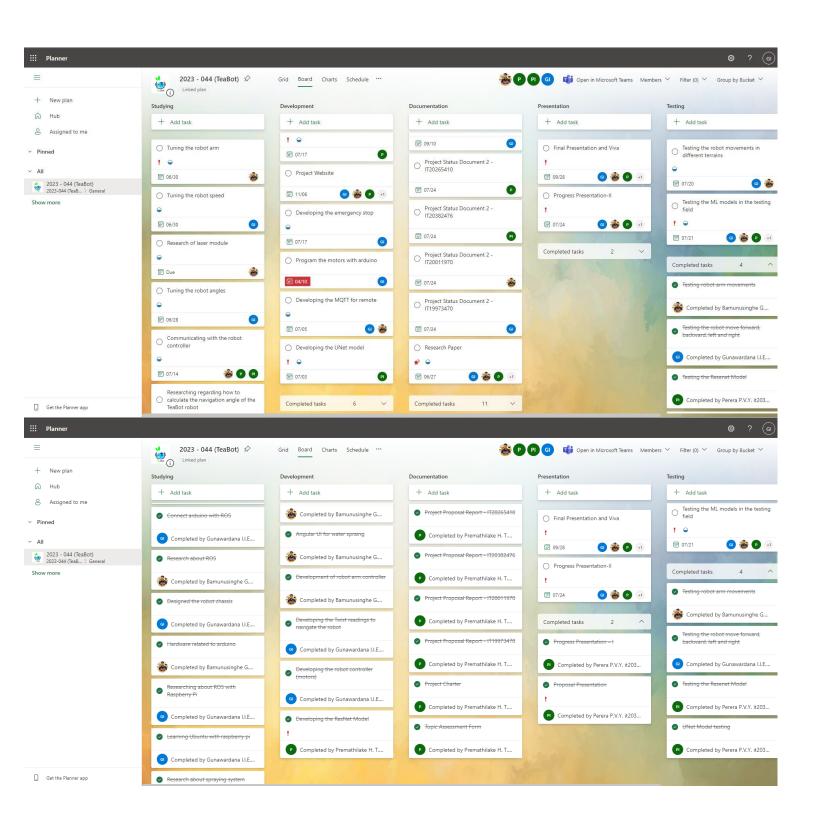


2 PROJECT VIEWS MS PLANNER



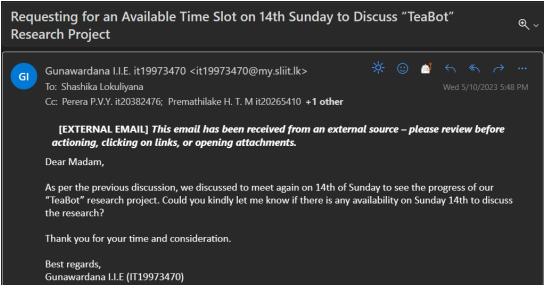


3 WORK BREAK DOWN STRUCTURE MS PLANNER



4 EMAILS, MEETINGS WITH SUPERVISOR, CO-SUPERVISOR





Requesting a time to meet to discuss the TeaBot project ⊕ ∮ ← ≪ → … Gunawardana I.I.E. it19973470 To: Shashika Lokuliyana Cc: Premathilake H. T. M it20265410; Perera P.V.Y. it20382476; Bamunusinghe G.P it20011970 Could you please give us a time to meet on 27th Saturday to discuss about our TeaBot project? Thank you for your time and consideration. Regards, Gunawardana I.I.E (IT19973470) Shashika Lokuliyana <shashika.l@sliit.lk> To: Gunawardana I.I.E. it19973470 [EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments. Putha can you come on 2nd June around 10.00 am?? Thanks in Advanced. Shashika L. Lokuliyana M.Sc. (IT) SLIIT, B.Sc.(Sp.) Hons in IT (Spec. in CSN) (SLIIT), MIEEE, MCSSL, MISOC

Senior Lecturer

CSNE Degree Program Coordinator

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Committee Member - IEEE WIE Sri Lanka Section

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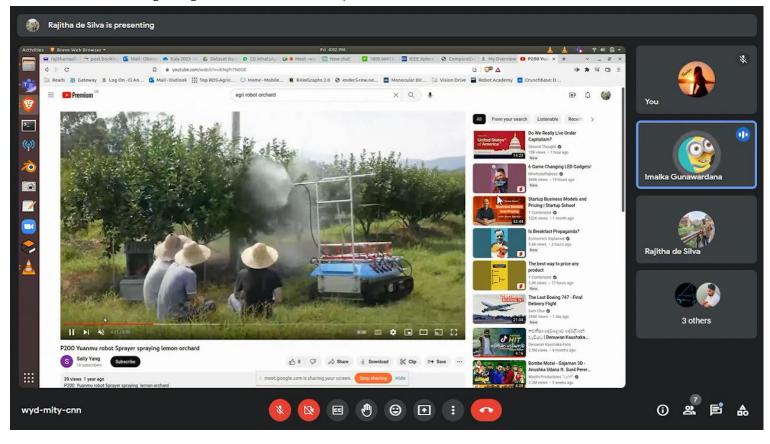
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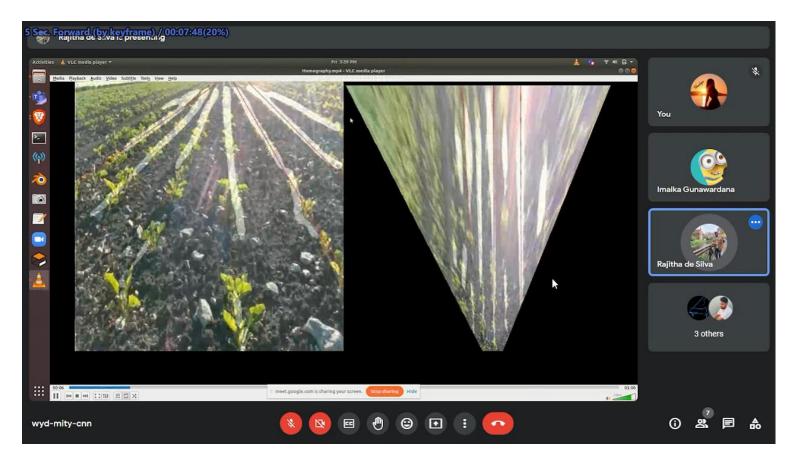
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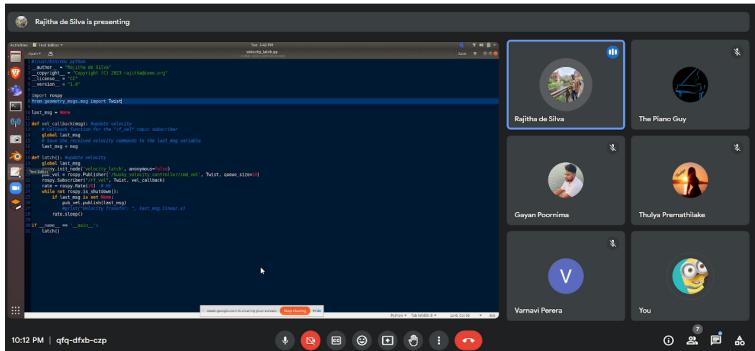
Mon 5/29/2023 2:04 PM

Screenshots of meetings about automatic navigation, dataset collection, and data labeling methods for & spraying with external supervisor Dr Rajitha De Silva

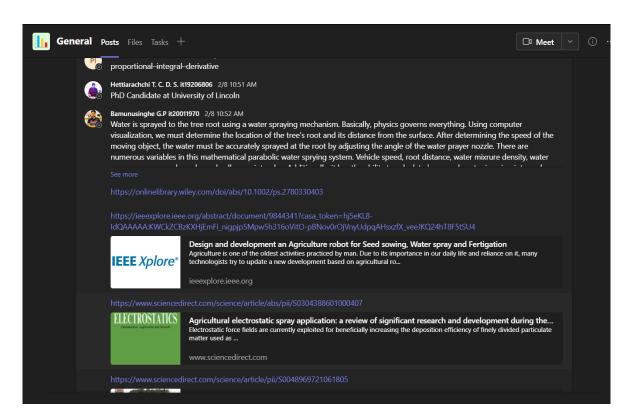
Discussions regarding Robot Controller Development.

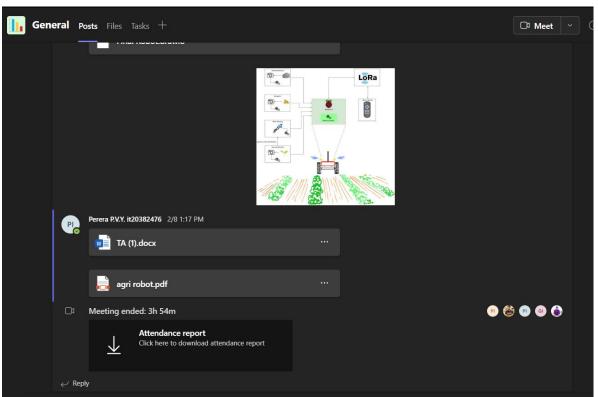






5 MS TEAMS AND CALLS



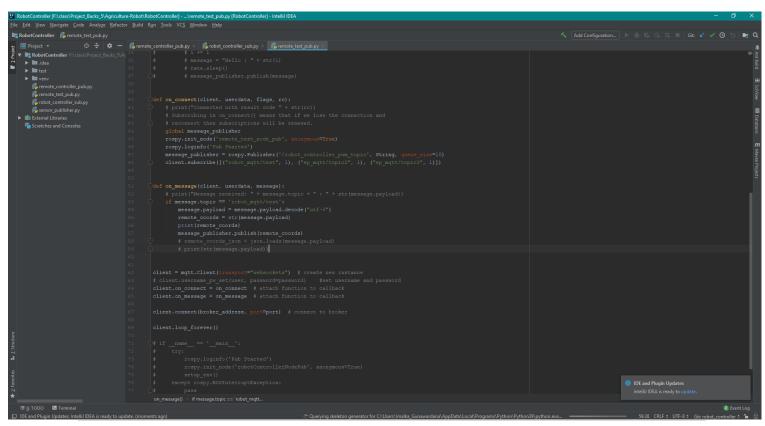


6 Prototype

Screenshot for the development of the robot controller

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| Part | Comparison | Compariso
```

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| Process | Proceedings | Proc
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∞ sketch_feb04a | Arduino 1.8.8

File Edit Sketch Tools Help



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sketch_feb04a
```

```
if (loopCountCur < rightCount) {</pre>
      if (rightIsIncrementing) {
        rightSet++;
        if (rightSet > 0) {
          analogWrite(R_F_PWM, rightSet);
          if (rightSet < pwmDelayLevel) {</pre>
            delay(pwmDelay);
        if (rightSet <= 0) {</pre>
         analogWrite(R_B_PWM, -rightSet);
          if (-rightSet < pwmDelayLevel) {</pre>
            delay(pwmDelay);
        }
      } else {
        rightSet--;
        if (rightSet >= 0) {
         analogWrite(R_F_PWM, rightSet);
         if (rightSet < pwmDelayLevel) {</pre>
            delay(pwmDelay);
          }
        if (rightSet < 0) {</pre>
         analogWrite(R_B_PWM, -rightSet);
         if (-rightSet < pwmDelayLevel) {</pre>
           delay(pwmDelay);
        }
     }
    loopCountCur++;
// Serial.println("leftSet = " + String(leftSet) + ", rightSet = " + String(rightSet));
void loop() {
```

Development of the robot chassis



