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Engineering Notebook

Mechatronics Engineering 2023-2024

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<LinkedIn - Optional>

Instructions:
For each day that you enter data into your Engineering Notebook, Copy this template text and table for each project entry. The difference between a Physical Engineering Notebook and this Notebook will be that your most current entry (i.e. Your newest entry) will be at the "top" like a blog… Check here for a Rubric

Sometimes you will see a comment from your teacher. Please read, and if it's a question, answer it.

Comment or Question from Mr. Burnham:

<copy text between these lines>

<date> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:
- List each
- Task you are trying
- To accomplish today

Useful Reference Links:
- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

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Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?
- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<copy text between these lines>

<8-16-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

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Today's Class Notes: <enter class lecture notes here>
I read articles on Ohm. They were pretty interesting, it was mainly on how he studied current, shocking himself and jotting down how the resistors would change the effect. I also learned ohm was a physicist as well as a mathematician, the techniques back then seemed a lot more dangerous compared to today.

I met Philip pretty interesting discussed his super power which was mind control via electromagnetic waves.

Ohm's law V=I*R, I being current(ampere/amps), V being voltage(volts) and R being resistance(ohms).
Voltage is the pressure of current flowing through the circuit. (difference in electrical potential)
Resistance is able to squeeze the current flowing through it controlling it (the objects opposition to the flow)
Current is the flow of amps (the rate in which something flows)

If the voltage increases then the current will increase as well, but if resistance changes the constant voltage goes down (the bigger the resistance the less the current.

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<8-18-23> <How to screenshot?>

Write a short paragraph of today's Project Goals…25 words

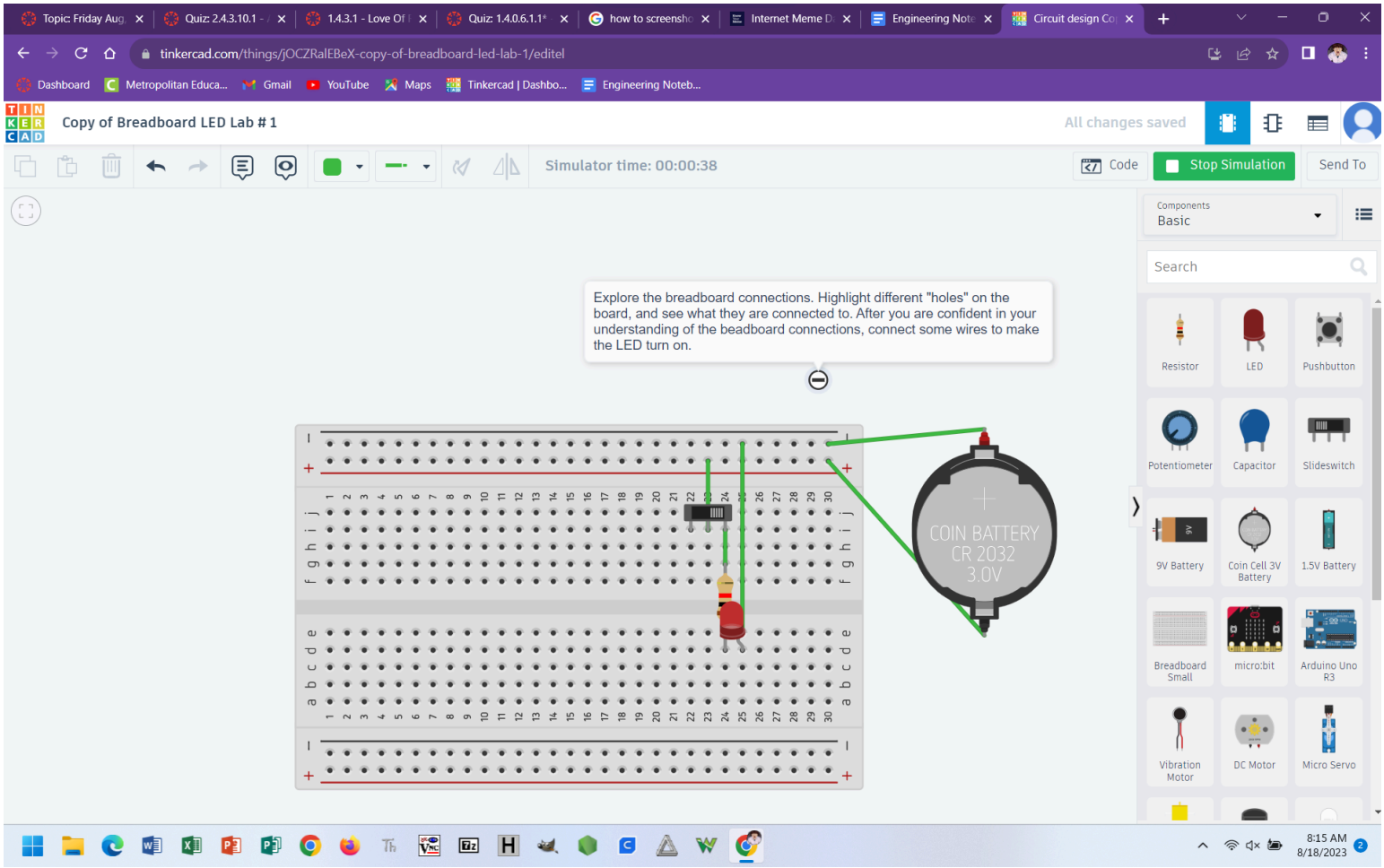
Planned Task List:

- Finishing screenshot assignment
- Finish taking apart printer
- Add a meme to the notebook
- Measure ohm resistors

Useful Reference Links:

- List any links related to today's work
- https://knowyourmeme.com/page/15

Today's Class Notes: to screenshot first I find the image I want to screenshot then quickly I tap both the windows key on the bottom left of the keyboard and the print screen key above the backspace.



OHM RESISTOR CHART FOR RESISTOR LAB !!!!

Resistor #	Resistor value(color)	Measured Ω	Measured Volts	Measured Current(I)	Calculated Current(I)
#1	Yellow, violet, Brown Gold.	0.464 K Ω	6.0 mv		12.931 A
#2	Brown, Black, Orange, Gold	9.97k Ω	5.16 mv		517.553 mA
#3	Orange, Orange, Brown, Gold	326.7 Ω	.3 mv		918.274 mA
#4	Orange, Orange, Brown, Gold	329.3 Ω	9.2 mv		27.938 mA
#5	Yellow, Blue, Brown, Gold	0.463K Ω	5.7 mv		12.311 A

What Did I Working On Today (Labs, Robot Club, Other Projects):

What Will I Work On Next Time?

<8-21-23><Circuits> - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

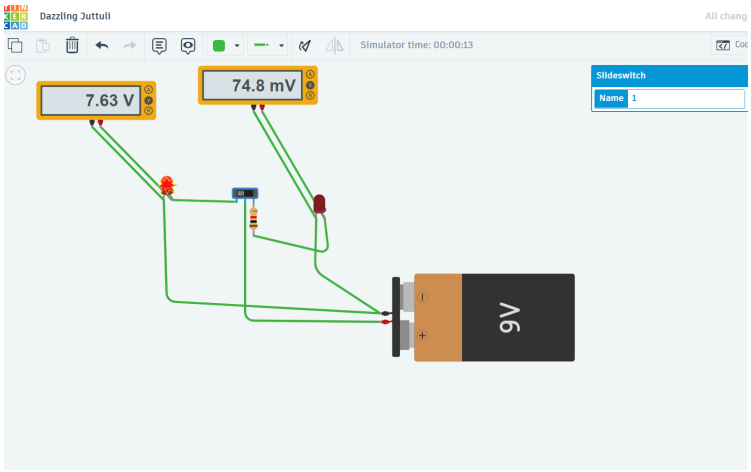
Planned Task List:

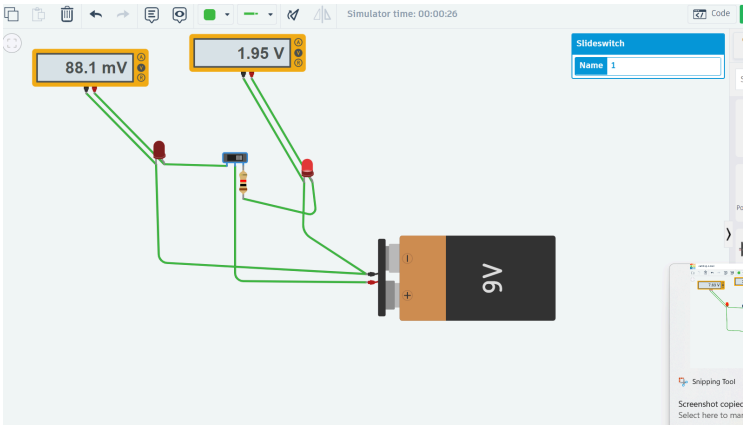
- Complete OHM resistor chart 😀
- Engineering notation

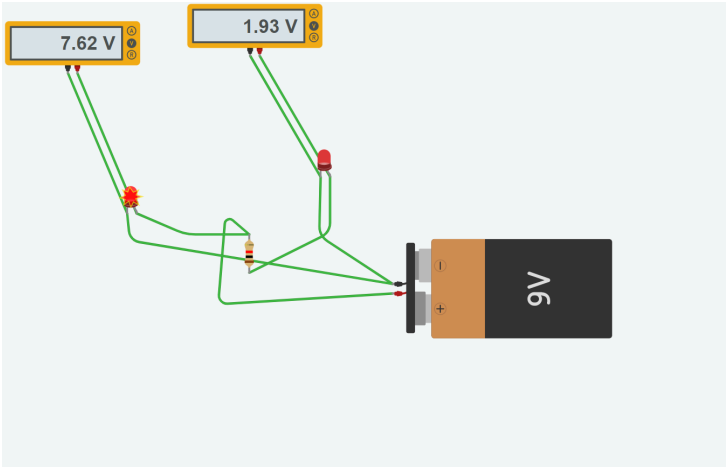
Useful Reference Links:

- List any links related to today's work
- https://docs.google.com/presentation/d/1Qh6qmIuBY5etXYYyGyb6JIjbIIx_tnd9TC1q9HdNfKg/edit#slide=id.geb0e83e4c2_1_1046

Today's Class Notes: <enter class lecture notes here>







- **Unlike sigfigs**

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<8-23-23> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

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-

Today's Class Notes: <enter class lecture here>
I read the first four pages of ready player one which seemed really interesting. In a world riddled by so many problems many of the people in this world use video games/ the oasis to escape reality. In this game there's a secret hidden lottery ticket by the creator of the oasis which will transfer his wealth to whomever finds it.

What Did I Working On Today (Labs, Robot Club, Other Projects):
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<copy text between these lines>

<8-24-2023> <arduino - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- Learn arduino
- Free time
- Airplane

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

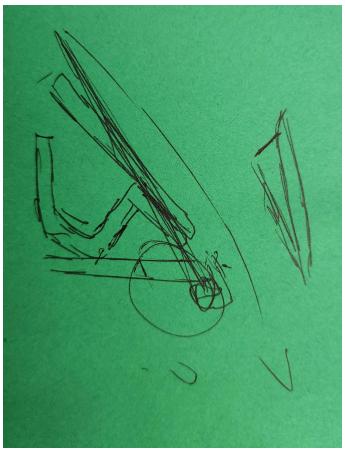
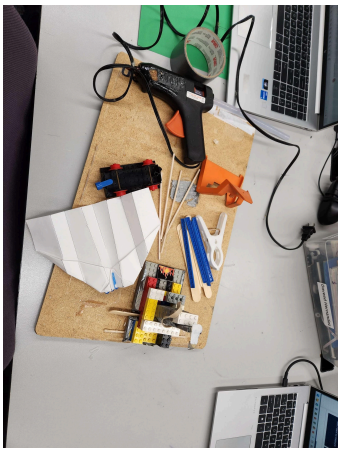
Today during class we learned about arduinos and simple coding which was very educational :)

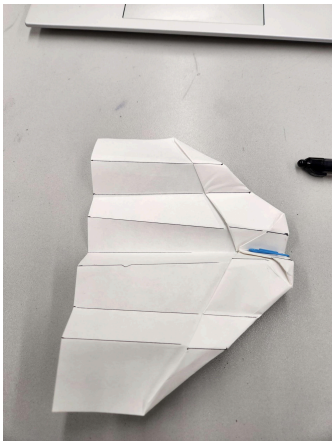
- **During freetime I had gained a better understanding of soldering :)** 💪

What Did I Working On Today (Labs, Robot Club, Other Projects):

Today I watched videos on how to properly use and code c++ on the arduino

-We started the airplane deciding to make our launcher mainly based on legos and a metal rod. The plan is simply to use the legos as a support connecting them to the wooden board we were given, securing our legos and metal rod onto the base with duct tape and hot glue which is a very strong combination which won't ruin the legos. The metal piece is the part of the launcher which will take the most tension with it taking in the tension and pulling force directly. During This day we started the launcher and created the first two plane prototypes.



What Will I Work On Next Time?

- Airplane

6<8-25-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- Continue learning arduino
- Make a paper airplane

Useful Reference Links:

- List any links related to today's work

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
We worked on the plane's launcher getting it to its final design, we mainly worked on reinforcing its lego base with more legos keeping the build more stable and able to withhold more tension.

What Will I Work On Next Time?

- Airplane

<8-29-23> <current- Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- Read article
- Series circuits
- Fire drill
- Air plane

Useful Reference Links:

- List any links related to today's work

Today's Class Notes: <enter class lecture notes here>
Today we completed

What Did I Working On Today (Labs, Robot Club, Other Projects):
We tested the accuracy and speed of the plane adjusting minor things to counteract it

Circuit	Measured R1	Measured R2	Measured RT	Calc R1+R2	Measured Vt	Measured V1	Measured V2	Calc Current	Measured Current
1	379.8	384.5	766	764.3	5.14	2.535	2.504	6.71	**6.7**

	k ohms	k ohms	M ohms	M ohms				uA	**uA**
2	325.4 ohms	327.5 ohms	652 ohms	652.9 ohms	5.13	2.55	2.563	7.86 mA	**7.76 mA**
3	463 k ohms	464k ohms	928k ohms	927 k ohms	5.13	2.558	2.562	5.533 mA	**5.46 mA**
4	**9.96k ohms**	**9.96k ohms**			**5.14**	**5.14**		**.051 mA**	51.2 uA

What Will I Work On Next Time?

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<9-8-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
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Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>
V=I *R
Resistances if in a series circuit or DC can have multiple resistors but the in the end they both add are just seen as a big resistor.

Circuit	R1	R2	Calc R_1+R_2	Calculated V_T	Calculated I_T	Calculated V_1	Calculated V_2
1	330Ω	680Ω	1010Ω	5	4.95mA	1.67v	**3.366v**
2	1kΩ	2kΩ	3kΩ	5	1.66mA	1.660v	**3.32v**
3	6.8kΩ	1kΩ	7.8kΩ	5	641.03uA	4.359V	**.641V**
4	330Ω	330Ω	660Ω	5			

Circuit	R1	R2	Calc R_1+R_2	Given V_T	Calculated V_1	Calculated V_2
1	330Ω	680Ω	1010Ω	5v	1.63v	**3.366v**
2	1KΩ	2KΩ	3kΩ	5v	1.66v	**3.33v**
3	680Ω	1KΩ	7.8kΩ	5v	.436v	**0.641v**
4	330Ω	330Ω	660Ω	5v	0.5v	**0.5**

Circuit	R1	R2	Measured V_1	Measured V_2
1	325.7Ω	217.7	2.078v	**3.11v**
2	46.8	9.87k	24 mv	**5.17v**
3	46.8	217.7	.912v	**4.27v**
4	326.7	9.87k	165.9 mv	**5.03v**

What Did I Working On Today (Labs, Robot Club, Other Projects):

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

<9-11-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

Classroom tools and equipment.

The combination square is a metal piece which connects to a ruler, this metal piece has a knob that tightens to the ruler keeping your measurement, this tool includes a right angle, a leveler, and a 45 degree angle. The tools used for precise measurements to ensure an angle of either 90 or 45 degrees.

Circuit	Measured R1	Measured R2	Calc R1+R2	Measured Vt	Measured V1	Picked V2	Measured Current
1	359.3	678	1. 004 KΩ	5.2	1.712	3.570	**5.28**

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Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

Circuit	Measured V1	Measured V2	Measured Vt	Calculated R1	Calculated R2
1	0.523 v	4.63v	5.16	101.36	897.29
2	2.88	2.281	5.16	558.14	442.05
3	3.81	1.334	5.16	738.37	258.53
4	**2.594**	**2.478**	5.16	**502.71**	**480.23**

1. What is the primary purpose of a stubby ball pein hammer?
   a) Shaping metal
   b) Welding metal
   c) installing Nails
   d) Hitting various objects

2. Which part of the stubby ball pein hammer is used for striking objects?
   a) Pein
   b) Handle
   c) Flat Side
   d) Round Side

3. What is the typical weight range of a stubby ball pein hammer?
   a) 1-2 pounds
   b) 5-10 pounds
   c) 15-20 pounds
   d) 50-100 pounds

4. Which material is commonly used for the head of a stubby ball pein hammer?
   a) Steel
   b) Rubber
   c) Tungsten
   d) Iron

5. What is the primary function of the ball pein end of the hammer?
   a) Peening(shaping metal)
   b) Cutting
   c) Prying
   d) Drilling

6. Stubby ball pein hammers are often used in which industry?
   a) Construction
   b) Healthcare
   c) Information technology
   d) Food service

7. What is the advantage of using a stubby ball pein hammer over a regular-sized one?
   a) Improved precision
   b) Greater striking force
   c) Longer reach
   d) Reduced weight

8. Which type of projects is a stubby ball pein hammer best suited for?
   a) Metalworking
   b) Masonry
   c) Carpentry
   d) Plumbing

9. What is the purpose of the "stubby" design in a stubby ball pein hammer?
   a) To make it more compact and portable
   b) To increase its weight
   c) To enhance its grip
   d) To improve its balance

10. Which safety gear is essential when using a stubby ball pein hammer for its intended purpose?
   a) Safety goggles
   b) Oven Mitts
   c) Running shoes
   d) Heat visor

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<9-13-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

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- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

Circuit	Derived V1	Pick V2	Measured Vt	Calculated R2	Measured R2
1	2.857v	2.303v	5.16v	4.46k	4.48k
2	.14v	5.02v	5.16v	9.73k	9.74k
3	4.153v	1.007v	5.16v	1.95k	2.01k
4	**1.18v**	**3.98v**	5.16v	**7.71k**	**7.73k**

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<9-15-23> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

Test	Brightness	Selected R_2	Measured V_2	Measured V_T	Derived V_P	Calculated I	Calculated R_P
1	**Covered**	6.20KΩ	.520v	4.48v	3.96		53.409KΩ
2	**Some Light**	4.23KΩ	1.540	4.48v	2.94		8.075k
3	**Room**	1.941KΩ	3.318	4.48v	1.162		2.620k

4	**Brighter**	1.117KΩ	**4.03**	4.48v	**0.45**		**1.241k**
5	**Full Bright**	851Ω	**4.39**	4.48v	**0.09**		**868**

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<9-19-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

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- To accomplish today

Useful Reference Links:

- List any links related to today's work
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Today's Class Notes: <enter class lecture notes here>

(LAB1)
(LAB2)
(LAB3)

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
-

<9-19-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

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Useful Reference Links:

- https://watch.screencastify.com/v/7pf6o8HPkwZC5IB88oIi

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Step by step instructions on how to use the tool <stubby ball pein hammer>

1. Which safety equipment should be used? (Safety goggles, proper clothing)
2. How should the tool be held? Which way?(the tools primarily used to flatten sheet metal and should be held with the flat side being front facing.whole The ball pein should only be used when spreading metal roundly or for precise tapping in adjusting pins.)
3. Demonstrate how to use it properly.(hold the hammer with your dominant hand, holding in firmly, with your less dominant hand hold down the object or use clamps to keep it in place while it's being stricken.)

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<9-25-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

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- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

```
const int arduinoBoardLED = 13; // LED on pin 13

void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);               // Use Serial Monitor to debug
  pinMode(arduinoBoardLED, OUTPUT); // initialize the digital pin as an output.
  Serial.println("Running The Seup Function");
}

void loop() {
  // put your main code here, to run repeatedly
  delay(1000); // just a small delay to slow the main loop down
  Serial.println("Starting Main Loop Code");
  // put your code between here
    for(int x = 1; x < 20; x = x*2)
    {
      Serial.println(x);
      delay(1000);
    }
  // and here
  Serial.println("Ending Main Loop Code");
}


// ================================================================================
const int arduinoBoardLED = 13; // LED on pin 13

void setup() {
```

```
  // put your setup code here, to run once:
  Serial.begin(9600);               // Use Serial Monitor to debug
  pinMode(arduinoBoardLED, OUTPUT); // initialize the digital pin as an output.
  Serial.println("Running The Seup Function");
}

void loop() {
  // put your main code here, to run repeatedly
  delay(1000); // just a small delay to slow the main loop down
  Serial.println("Starting Main Loop Code");
  // put your code between here
    for(int x = 1; x < 20; x = x*2)
    {
      Serial.println(x);
      delay(1000);
      if(x==10)
      {
        Serial.println("The loop is equal to 10");
      }
      if(x<10)
      {
        Serial.println("The loop is less then 10");
      }
      if(x>10)
      {
        Serial.println("The loop is greater then 10");
      }
    }

  // and here
  Serial.println("Ending Main Loop Code");
}
```

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<9-27-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- Presentations
-

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

Presentation notes-

- **No guns in photo -not appropriate for school setting**
- **No items not related to the work**
- **Make slides visible**
- **Had slides with good info and were able to extrapolate**

What Did I Working On Today (Labs, Robot Club, Other Projects):

Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don’t lose the work. Don’t just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<10-11-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each

- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

LAB ! SONIC SENSOR

```
// defines pins numbers
const int trigPin = 11;
const int echoPin = 12;

// defines variables
long duration;
int distance;

void setup() {
  // UltraSonoc Pins
  pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output
  pinMode(echoPin, INPUT); // Sets the echoPin as an Input

  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);

  Serial.begin(9600); // Starts the serial communication
}

void loop() {
  // Clears the trigPin
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);

  // Sets the trigPin on HIGH state for 10 micro seconds
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  // Reads the echoPin, returns the sound wave travel time in microseconds
  duration = pulseIn(echoPin, HIGH);

  // Calculating the distance
  distance = duration * 0.034 / 2;

  // Prints the distance on the Serial Monitor
  Serial.print("Distance: ");
  Serial.println(distance);
  if (distance >= 10)
  {
```

```
  Serial.println("stop");
  }
```

LAB 2

```
// defines pins numbers
const int trigPin = 11;
const int echoPin = 12;

// defines variables
long duration;
int distance;

void setup() {
  // UltraSonoc Pins
  pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output
  pinMode(echoPin, INPUT); // Sets the echoPin as an Input

  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);

  Serial.begin(9600); // Starts the serial communication
}

void loop() {
  // Clears the trigPin
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);

  // Sets the trigPin on HIGH state for 10 micro seconds
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  // Reads the echoPin, returns the sound wave travel time in microseconds
  duration = pulseIn(echoPin, HIGH);

  // Calculating the distance
  distance = duration * 0.034 / 2;

  // Prints the distance on the Serial Monitor
  Serial.print("Distance: ");
  Serial.println(distance);
  if (distance >= 10)
  {
    Serial.println("stop");
  }
  else if (distance <= 10)
  {
    Serial.println("go");
  }
}
```

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<10-16-23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Exploro vision: Today we finished up some of our incomplete problem solvings starting on friday and with the group we decided the best ones to take finally decided on the problems and solutions of infrastructure and healthcare, We have also divided up our focuses and researched our topics mildly.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11-1-23 <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
I started a book called Uncharted Territory where I read The index, which was a few pages long and explained the purpose of the book, which is for teachers to be able to connect and provide possible futures for students. I didn't get much farther than that point within reading time.
Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

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Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11/3/23> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
I read an article about possible future laws which may be introduced by congress that includes the Use of AI In and out of school. The main gist of the article was Biden's order to Tackle AI tech in the education system and keeping guidelines on its effects on students. It's been proposed to monitor students with the use of AI detecting cheating, campus security and cameras with facial recognition to detect any threats.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into

- small tasks you can complete in 30-60 min

<11/6/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
I read an article on chinas AI Analog chip which is claimed to be 3.7x faster then the A100. the chip has 80-billion transistors H100 super-chip. Although the chip had speed it didn't have the accuracy to match up and because of that was mildly disappointed.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11/13/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
50 word summary of flexible printed circuits.

This article is about flexible printed circuits,but mainly it's about how they're evolving and getting better and contrasting it also compares them from something like printed circuit boards which are pretty similar. FPCs(Flexible printed circuits) are small, light weight, and complex and are used in a variety of places like auto motive, medical, industrial, and military industries.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11/27/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Copper has a long history in the electronics industry and now is starting to make way in printed electronics. Lots of companies are looking towards its future in printed and micro electronics due to copper being a more expendable, green resource. In manufacturing 80% of coppers trashed so using it would save lots of company money whilst being seemingly just as effective.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11/28/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
The Robotic hand was made to aid in quantum research, for this they needed precision and efficiency, this was needed due to not being able to perform these new experiments with standard lab experiments.

Jet taxi

Flying taxi cab.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<11/29/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
During the beginning of class today I read berserk, specifically I'm on the “elves of misty valley’ ark. Berserk in a dark fantasy graphic novel published by dark horse. It's a very long series that's been going on since way before I was born. It's mainly about a swordsman named Gatts who's lived a very depressing hard life getting revenge on his old team leader and friend whom sacrificed his entire squad basically causing an event that spawns demons on earth. The storys very metal in a way, it's also very well drawn with compelling character development.

.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<1/9/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

Article read: Will 2024 Be the Dawn of a New Robot Age?

This article primarily states that 2024 the year of robots like 2023 was the year of open AI. Due to the advancement of Ai and autonomous Robots will be advanced to a much higher degree. Their was predictions given on how robots will much more widely used in different fields like schooling, fast food and many other miscellaneous subjects.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<1/10/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don’t lose the work. Don’t just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
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- small tasks you can complete in 30-60 min

<1/11/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

On the spacecraft

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<1/18/24> <Design-Con>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes:

Design con is a conference in which many different companies and people have their engineered products on display, they provide how the product works down to its many components and use it as a way of helping teach one another while making valuable connections. An example of this are the big business heads who come to Dream con to panel

.

What Did I Working On Today (Labs, Robot Club, Other Projects):

Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

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Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
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- small tasks you can complete in 30-60 min

<1-21-23> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

Apple after Releasing its new watches was soon forced to disable their blood oxygen monitoring feature.Apple watches Series 9 and Ultra 2 due to in-hinging on a patent by Health company Masimo which forced Apple to redesign and disable the Blood Oxygen monitoring system feature on newer versions on The Series 9 and Ultra 2 watches.

I read articles on Ohm. They were pretty interesting, it was mainly on how he studied current, shocking himself and jotting down how the resistors would change the effect. I also learned ohm was a physicist as well as a mathematician, the techniques back then seemed a lot more dangerous compared to today.

I met Philip pretty interesting discussed his super power which was mind control via electromagnetic waves.

Ohm's law V=I*R, I being current(ampere/amps), V being voltage(volts) and R being resistance(ohms).
Voltage is the pressure of current flowing through the circuit. (difference in electrical potential)
Resistance is able to squeeze the current flowing through it controlling it (the objects opposition to the flow)
Current is the flow of amps (the rate in which something flows)

If the voltage increases then the current will increase as well, but if resistance changes the constant voltage goes down (the bigger the resistance the less the current.

What Did I Working On Today (Labs, Robot Club, Other Projects):

Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don't lose the work. Don't just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<1/29/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

DesignCon is a convention which has recently added a new raffle in which a total of 40 engineers under 40 can either be nominated or sigh themself up and in reward they gain time with other engineers and the ability to grow themselves further.

What Did I Working On Today (Labs, Robot Club, Other Projects):

Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don’t lose the work. Don’t just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
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<2/12/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Entry Ticket:
The link I clicked was the robot video link. And the video I want to discuss is the robot that cooked the three course Cantonese meal. Although the robot was not autonomous, It was highly capable of complex motion which was very impressive. The maneuverability and easy controllability presented by the person in control of the robot was very impressive.

Open lab:
During open lab time I tried working on Easy EDA but the system had started to annoy me so I switched to my group project. I focused on trying to fix my unity camera and find a proper movement speed. I also worked on trying to get my jump coding to work.
What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<2/13/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Fortnite has been best so far at creating this idea of a metaverse, the player being able to enjoy and interact with so many other mediums and worlds while staying as their favorite banana man peely. The games able to build this illusion with the expansiveness of the creative mode which allows for the creation of many types of game styles and worlds.

Today I worked once again on movement and 360 degree vision code and temporarily got the camera 100% working properly !!! now i want to focus on properly connecting it to the model and starting world design.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<date> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Today we completely figured out 3d movement and started on character design and game design with our tools & game being drawn onto paper and out plot starting to form. So far the characters is escaping a cave they fell into with strange tools they found after falling into the cave, there will be puzzles and parkour.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<2/15/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Movement completed for game!

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into

- small tasks you can complete in 30-60 min

<2/16/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
Entry sheet:
I read about possible alien influence on the planet some time between 3-4 billion years ago, due to official government releases of UFO sightings and info people have been theorizing ways in which extraterrestrials could have reached the planet. Some ideas included where space travel via light speed or worm holes used to make the large leap.

Designs and general game ideas have been finalized.
What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<2/26/23> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>
Tesla's new optimus robot which should be releasing some time around late 2025 is currently being upgraded with the movement speed increasing 30 %, its final speed being estimated to be 5 miles per hour. Currently its able to do very fine movement and able to do tasks such as fold laundry.

Word Count: 51

What Did I Working On Today (Labs, Robot Club, Other Projects):
Describe the steps/challenges you are working on. Make sure you describe how you set up the experiment, how you executed it, and all the materials you needed to do it. Spend time writing your "reflections". Sometimes more important than the actual results, are your thoughts on "why" and "how". Here is where you accurately describe both the success and failures.

If you make mistakes in the data collected, document the mistake and highlight it with a comment, so you don't lose the work. Don't just delete it. Where did you get stuck? A detailed description of issues you got stuck on or did not understand.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
- You need to be thinking about this project as a whole, and break it down into
- small tasks you can complete in 30-60 min

<date> <Title - Daily/Weekly "Blog" Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

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<3/11/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

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- List each
- Task you are trying
- To accomplish today

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Today's Class Notes: <enter class lecture notes here>

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<3/13/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):

Today for morning reading I read pages 97 through 188 of The coming of age, psychological manga Goodnight Punpun. The photo above is an Image From chapter 16. During the chapters I read today much has happened, But before that I should explain The general premise of the manga, GoodNight Punpun is

What Will I Work On Next Time?

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<3/27/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
During the beginning of class I completely finished volume one of GoodNight Punpun. The story ended on a sad note with the girl punpun loved getting with someone who he admires and respects, him seeing their relationship`together breaking his heart.

Include pictures, Code or links to Code, and links to reference material.

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<4/7/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

<4/10/24> <Absent>

<4/11/24> <Title - Daily/Weekly “Bloog

Meta has decided to further advance in The AI field, This investment into meta is large scale with them having hopes to create systems which can advance the furthest through AI.
Meta AI desperately want to become apart of the AI train

What Did I Working On Today (Labs, Robot Club, Other Projects):
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What Will I Work On Next Time?

-

<date> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

- List any links related to today's work

-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
During the beginning of class I had read an article titled “Demystifying Quantum: It’s Here, There and Everywhere.” The article went over basic laws of quantum mechanics and explained the what, how and why of quantum mechanics. They had first gone over what exactly quantum means by going over the physical makeup of matter in electrons, protons, neutrons and quarks. Basic parts of an atom being used distinctly is quantum mechanics. They describe how exactly these interact with the world and how quantum mechanics can be used in the future in devices such as semiconductors, motion detectors, lasers and ect… overall the main focus of this article was to promote the future of quantum mechanics.

Include pictures, Code or links to Code, and links to reference material.

What Will I Work On Next Time?
- (fill this out at the end of class/open lab activity time)
- List your next 2-5 steps or activities.
- This is key!!!
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<4/16/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:
- List each
- Task you are trying
- To accomplish today

Useful Reference Links:
- List any links related to today's work
-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
https://cobod.com/from-ashes-to-innovation-first-3d-printed-home-completed-in-californias-wildfire-impacted-landscape/

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<4/23/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

Useful Reference Links:

-

Today's Class Notes: <enter class lecture notes here>

What Did I Working On Today (Labs, Robot Club, Other Projects):
article : Mechanical Engineers Face a Changing Future

- The article published by Rob Spiegel speaks of the soft skills now needed by the next generation of Mechanical engineers, Manufacturing Engineers and CNC machinists due to the advancement of AI and the differences it's already showing in industry. These skills for all teams involve more communication and the ability to analyze data effectively and functionally. The addition of AI will help bring in much more data on products and can help improve upon designs made manufacturing which will help a multitude of different things.

What Will I Work On Next Time?

<4/25/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- **Finish code**
- **Complete launcher**

Today's Class Notes:
Today in class I read an article titled “CALIFORNIA NOW HAS SO MUCH SOLAR POWER THAT ELECTRICITY PRICES ARE GOING NEGATIVE DURING THE DAY.” The article by “THE_BYTE” described the recent issues with Solar power, which in all reality is not an issue to the home owners. Solar energy is so efficient that it makes the price of power negative, which although may not be the best for some businesses, it's definitely beneficial to homeowners. Another small issue is the Solar Panels are getting too much energy, since there's a lot of excess energy that can be stored. In the future battery advancement may allow storage of excess solar energy which will make solar energy constant and homes have no need for other power sources.
What Will I Work On Next Time?

<4/30/24> <Title - Daily/Weekly “Blog” Project Title - compelling, descriptive title>

Write a short paragraph of today's Project Goals…25 words

Planned Task List:

- List each
- Task you are trying
- To accomplish today

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-

Today's Class Notes:

What Did I Working On Today (Labs, Robot Club, Other Projects):

Article: “camouflage infrared sensors…” by John Keller

This article was about the US army infantry reaching out to industries for the purpose of creating a special Camouflage fabric for foot soldiers to conceal themselves

What Will I Work On Next Time?

- (fill this out at the end of class/open lab activity time)