## **Engineering Notebook**

Mechatronics Engineering 2024-2025
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#### 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: Check out the <u>New Blog Template Here</u>
Also, please have the newest Blog Entry here at the top... and turn all your text black from the <u>red</u>

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

Get the template from here New Blog Template Here

## 08/13/2025 Love Of Reading & Engineering Notebook Introduction

Physics In StarTrek

I was reading about what if real physics were applied in Star trek specifically on the fast acceleration of the spaceships. It was pretty interesting because the book tells you the true power of physics and what it can do to you. For example if you were going in a high acceleration vehicle like a star trek ship you would be knocked unconscious and die. To me it sounds pretty scary but it is cool to know what physics can do.

08/14/2025 Printers, tools, and Ohm Law

## **Today's Class Notes:**

Ohm Law Mathematical relationship of voltage current and resistance V=IR, V/R=I, V/I=R

#### Planned Task List:

#### **Useful Reference Links:**

https://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-ohms

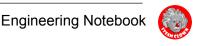
#### What Did I Do Today:

Ohm's law presentation and how it works.

Resistance

Current

Voltage



### 8/19/25 DMM DEVICE AND RESITANCE

## **Entry Ticket: Article AI paralysis**

This article is very interesting because we are now in a time where it's possible to cure strokes from brain stems with using Al avatars and electrodes on the brain. Having electrodes may sound like a bad thing to have, like what if the power goes out and the electrodes suddenly turn off but right now scientists are still developing or fixing paralysis.

I feel like this topic will affect me personally if I knew someone who had a stroke because I would immeditaly tell them about this new technology and they would be very happy to hear about it. This will definitely make the world better for the people who have muscle problems or paralysis but who knows what the cost might be if the technology gets in the hands of corporate companies.

## **Today's Class Notes:**

R #Resistor Number Value (from Colors)Measured $\Omega$ In Spec? $\Omega$ Error In Spec?#0Red, Red, Brown, Gold = 220Ω 5%217Ω $3Ω$ #1Brown, black, green, gold = 1M 5%9.70 M Ohm 300K Ohm300K Ohm#2Orange,orange, brown, gold = 330 ohm 5%327 ohm 910 Ohm3 ohm#3White, brown,brown 5%910 Ohm19 Ohm#4Brown black, red,0.991 K ohm8 ohm				
Gold = 220Ω 5%   Brown, black, green, gold = 1M   5%   327 ohm   3 ohm   3 ohm   5%   43   White, brown, brown   910 Ohm   19 Ohm   5%	R#		Measured Ω	
green, gold = 1M 5%  #2 Orange,orange, brown, gold = 330 ohm 5%  #3 White, brown,brown 5%  910 Ohm 19 Ohm	#0	, , , , , , , , , , , , , , , , , , , ,	217Ω	3Ω
brown, gold = 330 ohm 5%  #3 White, brown,brown 910 Ohm 19 Ohm 5%	#1	green, gold = 1M	9.70 M Ohm	300K Ohm
5%	#2	brown, gold = 330	327 ohm	3 ohm
#4 Brown black, red, 0.991 K ohm 8 ohm	#3	1	910 Ohm	19 Ohm
	#4	Brown black, red,	0.991 K ohm	8 ohm

	gold= 1K ohm 5%		
#5	12 Ohm Block 10%	12.1 ohm	.1 Ohm

### What Did I Do Today:

Finding resistors, color coding
Engineer notation
Measuring resistors
Article about Neuralinks
What Will We Work On Next Time?

## 8/20/25 Number Underestimation

## **Entry Ticket:**

I read a book called Number underestimation and it was very interesting because it tells how math is very fragile in the STEM industry and how many mistakes were caused due to math problems. I chose this book because I thought it was interesting to learn about the importance of numbers and how they function in the world.

## **Today's Class Notes:**

R#	Resistor Number Value (from Colors)	Measured Ω	Ω Error In Spec?	Measured Volts	Calculated I	Measured I
#0	Red, Red, Brown, Gold = 220 Ω 5%	217 Ω	3 Ω	5.16 V	23.8 mA	23.9 mA
#1	Orange,Orange,brown gold 330 ohm, 5%	326 OHM	4 ohm	8.96 V	27.5 mA	27.3 mA
#2	Yellow purple, brown, gold 470 ohm 5%	461 oHm	9 ohm	8.97 V	19.5 mA	19.4 mA
#3	Red red red gold 2200 ohm 5%	2.18k ohm	20 ohm	9.11V	4.2 mA	4.13 mA
#4	Brown black red 1k ohm 5%	988 ohm	12 ohm	9.10 V	9.2 mA	9.11 mA
#5	Brown green orange gold 5% 15k oHm	14.2k ohm	800 ohm	9.11 V	0.64 mA	0.61 mA



#### **Useful Reference Links:**

#### What Did I Do Today:

Lecture about SVCTE
Current and Volt measure lab

#### What Will We Work On Next Time?

Current and volt measure lab

## 8/21/25 Volts and Currents and Certificate?

Today goals are how to measure current and voltage

## **Today's Class Notes:**

What Will We Work On Next Time?

How to measure Volts and Currents on a breadboard What Did I Do Today: Figured how to measure volts and currents with a DMM

## 8/25/25 Language and Soldering

## **Today's Class Notes:**

Every programming language is mostly created by ego Arduino(Microcontrollers and Microprograming) Udemy Classes sign up

**Planned Task List:** 

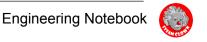
**Useful Reference Links:** 

#### What Did I Do Today:

Student Amb Interview Soldering wires again Arduino introduction

#### What Will We Work On Next Time?

Arduino basics(Tinkercad) Soldering



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

Get a better understanding of soldering and catching up on Arduino.

## **Entry Ticket:**

I read about Time crystals because I was interested in time and for the first time I heard about it I thought it was a piece used for time traveling but I read more about it and it is actually a tool for physicists that they use to study more about thermodynamics and the atoms of a crystal. It wouldn't really affect my community due to it being a feature mainly for scientists and I would have no purpose of ever using it. Who knows if it can actually impact the world, maybe it can in the future.

## **Today's Class Notes:**

Soldering wires is a secured connection through a metal and a heating gun. Its typically used to connect wires to wires or even components.

Soldering will be used on arduino

What Did I Do Today: Soldering DMM Document Arduino

What Will We Work On Next Time? Soldering DMM Document Arduino

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

I read about Glory of PI and I chose it because I was curious more about what PI is used for and how its used in the engineering field. Instead the book was telling me the importance of numbers instead and why they are significant in the engineering field. For example a simple miscalculation messed up the mirror positions on a building and it caused multiple fires from the sun onto other houses.

I thought I found this interesting due to the fact that it shows simple mistakes can lead to catastrophic errors.

## **Entry Ticket:**

## **Today's Class Notes:**



Types of resistors article told me about the importance of the resistors job which is to reduce the flow of electrons. I found out that the resistor's main purpose is to heat up because of the kinetic energy being converted into thermal energy which is why the resistor is hot. Many resistors have different purposes and levels like physical size, resistance, and the material they are made from.

The colors of resistors article told me about what the colors represent and how they are different from 3,4,5 bands. The article also talks about how to read it which is from left to right from the tolerance band. What I found surprisingly is that there are resistors used for surfaces of circuits where soldering is needed.

Series Circuits(A one way circuit)
Voltage Divider(A divider to find half of the other voltage)

Circui t	Measure d R1	Measure d R2	Measure d RT	Calc R1+R2	Measure d Vt	Measure d V1	Measure d V2	Calc Current	Measure d Current
1	327	327	660	654	5.14 V	2.56V	2.57V	7.8mA	7.76 mA
2	1.06k ohm	992 ohm	2K ohm	2052 ohm	5.14V	2.57 V	2.57V	2.5mA	2.56m A
3	9.9k ohm	327 ohm	10.33k ohm	10.28k ohm	5.12V	2.55V	2.57V	0.498 mA	0.5mA
4	1.996k ohm	993 om	3k ohm	2.99k ohm	5.12V	2.57V	2.55V	1.706 mA	1.67m A

What Did I Do Today:

What Will We Work On Next Time?

## 08/28/25

The article I read was about the significant yearly growth of the usage of solar energy or solar panels. I picked this topic because I was interested in solar panels due to the fact that I have not heard of them since a couple of years ago. After reading the article I believe that it's a great milestone for solar energy and reducing carbon emissions. I think solar panels will benefit my community due to the fact that it's cheaper and healthy for the environment but the only downside I could think of is its efficiency only being useful in sunny environments and not as strong as typical electricity.



## **Entry Ticket:**

## **Today's Class Notes:**

Resis tor	Resistors measure	Resistor Calculate	Measure d RTotal	Calc R1+R2+R 3+R4	Measure d Vt	Measure d V1,2,3,4	Calc Current	Measure d Current
1	5.59K	5600	17.9k	17.93k	5.12V	1.6V		
2	329	330				93.4m V		
3	2.06k	2.000k				0.59V		
4	9.9k	10k				2.83V		

**Planned Task List:** 

**Useful Reference Links:** 

What Did I Do Today:

What Will We Work On Next Time?

## 9/2/25 AI and Voltage

## **Entry Ticket:**

The article I read was about cybersecurity and its main purposes during the Russia and Ukraine conflict from 2022-present day. I found out that there were breaches in Ukraine affecting its economy such as local banks and people losing their money. Ukraine later formed groups of people that would create a cybersecurity strong enough to fight against the intruders potentially sent from Russia. In all words having a strong cybersecurity system is important to have to defend yourself and possibly your own country from malicious hackers.

## **Today's Class Notes:**

Switches are used to power on or off a device or circuit.

There are different types of switches used for many builds

All switch must have atleast 2 terminals but can be classified differently from their poles and throws

Poles are how much circuits the switch can connect to



Throws are how many positions each the poles can connect.

-SPST

One throw, One pole, 2 terminals

-SPDT

3 terminals, one common, and 2 pins

-DPDT

Double pole, double throw, similar to just SPDT.

- Pull up Resistors are mechanisms to prevent a circuit pin from floating
- 9.26V -> 0.01V

## Robot Club - < Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

What Will We Work On Next Time?

Planned Task List:

**Useful Reference Links:** 

What Did I Do Today:

## 9/3/25 Pictures and Resisting electricity

## **Entry Ticket:**

The book I read for this week was about the death and life of superman and I was interested in this book because I am a fan of the superhero superman and I was curious to know the science behind superman's life and how his superpowers influence the city of metropolis. What I read so far is that Superman uses his powers to save not only his life but to save people's lives from misfortunes and I heard that he uses a secret identity and alias of Clark Kent who works at a newspaper station to take photos of Superman.

## **Today's Class Notes:**

Robot Club - < Work or Project Title for today>

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

Planned Task List:

**Useful Reference Links:** 

What Did I Do Today:



What Will We Work On Next Time?

## 9/4/2025 Arduino and Physics

## **Entry Ticket:**

I chose my own topic called Biomedical Engineering because it was an idea that could potentially be my career and after reading the article I found some interesting cool facts about this career. Biomedical engineering is a branch of medicine and biology that deals mainly with prosthetic devices for people who are missing limbs or organs. I think that this career will benefit the world especially the ones who are in need for transplants because to this day there are many people waiting for their transplant and the transplants are limited supply but with Biomedical engineering there could be potentially artificial limbs and organs created to the point where they almost function the same as the real deal.

## **Today's Class Notes:**

Measured R1 Ω	Measured R2 Ω	Measured V <sub>(Total)</sub>	Measured V <sub>(R2)</sub>	
Ω 8.15K	Ω 4.07Μ	V 5.12	V 5.10	

## Robot Club - < Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

Planned Task List:

**Useful Reference Links:** 

What Did I Do Today

## 9/5/2025 Nanobots and Arduino

## Entry Ticket: https://www.sciencedirect.com/topics/engineering/nanobots

The article I read about was my own topic which was about Nanobots and I found this topic interesting because they are robots that can fix problems that are very very small but not just for medical purposes. Nanobots are so small to the point where you not only need one but you need a whole army of them to actually function. To this day, Nanobots are functionally used for biology and machinery



## **Today's Class Notes:**

Robot Club - < Work or Project Title for today>
What Did I Working On Today (Robot Club, Other Projects):

**Planned Task List:** 

**Useful Reference Links:** 

What Did I Do Today: What Will We Work On Next Time?

### 9/9/25

**Entry Ticket:** 

**Today's Class Notes:** 

Circuit	Measured R1	Measured R2	Measured Rt
1	3.3 ohm	9.60 K ohm	9.62 K
2	9.61K om	14 ohm	9.62K
3	8.06 k ohm	1.69k ohm	9.62K
4	6.91k ohm	2.867 K ohm	9.62K



## **Entry Ticket:**

In today's reading I chose death and life of superman because I wanted to continue the story of this version of superman and I found out that superman had the option to join his enemy lex luthor but declined it for the sake of good and lex luthor turned out evil due to being jealous of superman and his great abilities. Where I ended up was when lex luthor supposedly got cancer from holding onto kryptonite too long and then mysteriously died in a plane accident and superman became skeptical at first but when lex luthor son the second took his company superman felt good for him but still had the feeling of skepticism.

## **Today's Class Notes:**

Circuit	Measured V1	Measured V2	Measured Vt	Measured R2	Calculated R2
1	3.235V	6.5v	9.735 v	6.5K ohm	6.43 ohm
2	0.241mV	9.51V	9.735V	9.45k ohm	9.4k Ohm
3	8.03 V	1.704 V	9.735 V	1.761 k ohm	1.685 k ohm
4	2.189 V	7.54 V	9.735 V	7.51k ohm	7.46k ohm

Circuit	Derived V1	Pick V2	Measured Vt	Calculated R2	Measured R2
1	7.175V	2.56V	9.735V	2.533 k ohm	2.611k ohm
2	3.765V	5.97 V	9.735V	5.908k ohm	5.99 K ohm
3	3.215V	6.52 V	9.735V	6.452 k ohm	6.54 K ohm
4	5.285V	4.45 V	9.735V	4.405k ohm	4.49 k ohm

## **Robot Club - Big Drone**

Notes

We took a look at the drone and there is currently a broken part on the border near the fans but in all means the drone is in good condition but there is a missing controller that is soon going to be replaced and function with the drone. A plan to make protective barriers around the fans.

Things Missing.



#### Controller

Things to Add/fix Controller Protective barriers

Goal:

Try to turn the drone on

What Will We Work On Next Time?

#### **Useful Reference Links:**

#### What Did I Do Today:

Observations of the drone
Talked with Burnem::
Research about the yellow rectangles(Servos)
Find the transcript for the transmitter.
Research the company NAZA for GPS
Take photos as scavenging the drone

#### What Will We Work On Next Time?

:Planning the pieces and 3d parts onto the drone.

Research data, find the transcript, and planning to open the drone.

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

## **Entry Ticket:**

I read the ChatGPT article and found it interesting because there were 2 sides and each side had there part like one side believed it was positive to be used as a tool for assistance and the other side said it is diminishing the learning process and is bad academic integrity.

## **Today's Class Notes:**

if, Elseif, else

If: A command on a specific requisite

Elseif: A secondary requirement

Else: If everything else fails then this command turns on



## Robot Club - <Work or Project Title for today> What Did I Working On Today (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.</p>

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.

P	lan	ned	Task	ı	ist:
	ıaıı	HEU	Iasn	_	IJL.

$\Box$	< List each > (ProTip: Look At Your "What Will I Work On Next Time?" list)
	Task you are trying
	To accomplish today
	check off each that you actually did. the ones you did not, could be on your "Work On Next Time" list

#### **Useful Reference Links:**

< List any links related to today's work >

#### What Did I Do Today:

This where you describe what you did, it can include any of the following (or none). It's up to you

 Tasks Completed - Describe the specific tasks or milestones achieved. This could include design work, coding, testing, or research activities. You can check them off from the planned list above and describe what you did here

#### Methodology:

 Explain the methods and tools used to complete the tasks. This might include software, hardware, or specific engineering techniques.

#### Challenges and Solutions:

- Problems Encountered: Detail any obstacles or challenges faced during the day.
- Troubleshooting: Describe the steps taken to resolve these issues. If the problem remains unsolved, outline potential solutions or next steps for further investigation.

#### • Observations and Insights:

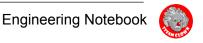
- o Findings: Share any significant observations, data, or results obtained from the day's work.
- Analysis: Reflect on what these findings mean for the project. How do they impact the overall project goals? Are there any unexpected outcomes?

#### • Learning and Reflection:

- Skills and Knowledge Gained: Document any new skills acquired or knowledge gained.
- Reflection: Reflect on the day's work. What went well? What could be improved? How does today's progress align with the overall project timeline?
- Udemy? Or Some Other Class? If you worked on a Udemy class, link to the class and tell what you learned...

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

#### What Will We Work On Next Time?



☐ (fill this out at the end of class/open lab activity time)
<ul> <li>□ List your next 2-5 steps or activities.</li> <li>□ This is key!!! - You need to be thinking about this project as a whole, and break it down into</li> <li>□ small tasks you can complete in 30-60 min</li> <li>□ Be sure these items get on your Big list</li> </ul>
<date> <title "blog"="" -="" compelling,="" daily="" descriptive="" project="" title="" weekly="">&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt; Write a short overview paragraph of today's Goals25+ words. This might be added at the beginning of class, and then edited by the end of class, as your exit ticket &gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Entry Ticket:&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;I read about how some company leaders fix or discontinue their products for the sake of human life or the environment. I found this to be interesting especially if they would be taking a loss in production sales. For example Dicks sporting goods once sold guns but discontinued them due to the tragic events of a school shooting.  Today's Class Notes:&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt; Enter any class lecture notes here. You can include screenshots, images and diagrams. If you drew any notes, you can take a picture and post it here. &gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Robot Club - &lt;Work or Project Title for today&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;What Did I Working On Today (Robot Club, Other Projects):&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Each screw on the top of the drone was different so we had to do trial and error and find the right screwdriver for each screw but unfortunely there are 2 screws stuck. It might have been turned so hard that it's stuck.  Planned Task List:&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;☐ Open the top of the drone&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;Useful Reference Links:&lt;/li&gt;     &lt;li&gt;◆ &lt; List any links related to today's work &gt;&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;• Udemy? Or Some Other Class? - If you worked on a &lt;u&gt;Udemy class&lt;/u&gt;, link to the class and tell what you learned&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Include pictures, Code or links to Code, and links to reference material. &gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;What Will We Work On Next Time?&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></date>

☐ Observe the inside of the drone and figure what parts need to be 3d printed.

## 9/15/25 Soldering and Finishing work



**Today's Class Notes:** Solder components on boards by placing the metal tip directly on the plate rather than putting too much.

## Robot Club - <Work or Project Title for today> What Did I Working On Today (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.</p>

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☐ < List each > (Pro lip: Look At Your What Will I Work On Next Time? list)
☐ Task you are trying
☐ To accomplish today
☐ check off each that you actually did. the ones you did not, could be on your "Work On Next Time" lis

#### Useful Reference Links:

< List any links related to today's work >

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#### Methodology:

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#### Challenges and Solutions:

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- Findings: Share any significant observations, data, or results obtained from the day's work.
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 ☐ List your next 2-5 steps or activities.
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 ☐ small tasks you can complete in 30-60 min
 ☐ Be sure these items get on your Big list

## 9/16/25 Lockdown, Build, and while

## **Entry Ticket:**

```
// my code
int var = -42;

void setup()
{
    Serial.begin(115200);
    Serial.println("end of setup");

    void loop()
    {
        Serial.println("Start of loop");
        var = 0;
        while ( var < 200)
        {
             Serial.println(var);
            var = var + 1;
        }
        Serial.println("end of loop");
</pre>
```

## **Today's Class Notes:**

}

< Enter any class lecture notes here. You can include screenshots, images and diagrams. If you drew any notes, you can take a picture and post it here. >

## Robot Club - < Work or Project Title for today>



## What Did I Working On Today (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.</p>

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PI.	an	ned	Task	l ist

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- Udemy? Or Some Other Class? If you worked on a <u>Udemy class</u>, link to the class and tell what you learned...

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

#### What Will We Work On Next Time?

(fill this out at the end of class/open lab activity time	າe)
☐ List your next 2-5 steps or activities.	



<ul> <li>☐ This is key!!! - You need to be thinking about this project as a whole, and break it down into</li> <li>☐ small tasks you can complete in 30-60 min</li> <li>☐ Be sure these items get on your Big list</li> </ul>	1
/17 Guest and a drone	
Write a short overview paragraph of today's Goals25+ words. This might be added at the beginning of class, and en edited by the end of class, as your exit ticket >	d
Intry Ticket:	
continued reading Death and life of superman because I read this book from last week and wanted to continue the tory and where I stopped was where Lois lane aka Clark Kent's friend, saw Superman and she wanted to get an terview with him because she thought it would be the interview of the century. She first had troubles finding him a	

he helps around the city 24/7 so she thought of a plan to bring him to her which she purposely drives off a bridge and the plan worked out but her interview didn't go well due to superman leaving so soon.

## **Today's Class Notes:**

< Enter any class lecture notes here. You can include screenshots, images and diagrams. If you drew any notes, you can take a picture and post it here. >

## Robot Club - < Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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	•	, ,	•	, ,
ι	ınderstand.			
F	Planned Task List:			
	☐ Research about Generi	c Drone parts		
	-Flight controller/Recei	ver		

#### **Useful Reference Links:**

https://www-v1.dji.com/naza-m-v2.html

- TEST GPS if it talks to the drone

#### What Did I Do Today:

Talked to burnem for the next steps and researched stores that had the components to replace the soon to be salvaged parts.

What	Will	Wo	Work	On	Novt	Time?
vviiai	VVIII	we	VVOIR	OII	Next	i iiiie :

Continue finding the components



☐ Talk to Burnem once found

## 9/18 Sparky and light

< Write a short overview paragraph of today's Goals...25+ words. This might be added at the beginning of class, and then edited by the end of class, as your exit ticket >

### **Entry Ticket:**

Sparkfun is a company that sells DIY electronics projects that are meant for everyone to learn about electronics. Their offerings include Microcontrollers like Arduinos. Sensors such as temperature, feel, and light. They even offer projects kits that can be used for school and are safe to use. Sparkfun also has tutorials or step by steps on how to make the projects. I believe that they do all of this to give everyone a taste of what electronics are in simple terms.

## **Today's Class Notes:**

Test	Brightness	Selected R <sub>2</sub>	Measured V <sub>2</sub>	Measured V <sub>T</sub>	Derived V <sub>P</sub>	Calculated I	Calculated R <sub>P</sub>
	example	1ΚΩ	0.07mv	5.16V	5.09v	0.07 mA	72700Ω
1	Covered	1K	6 mv	5.16V	5.1v	0.06mA	85k $\Omega$
2	Some Light	1K	15mv	5.16V	5.01v	0.15mA	33.4kΩ
3	Room	1K	32 mv	5.16V	4.84v	0.32mA	15.125k Ω
4	Brighter	1K	2.1V	5.16V	3.06v	2.1mA	$1.457 k\Omega$
5	Full Bright	1K	3.32V	5.16V	1.84v	3.32mA	575Ω

# Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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PI	lan	ned	Task	'l is	٤t:

< List each > (ProTip: Look At Your "What Will I Work On Next Time?" list)
Task you are trying
To accomplish today
check off each that you actually did. the ones you did not, could be on your "Work On Next Time" list

#### **Useful Reference Links:**

Physics behind the photoresistor <u>photoresistors</u> <u>photoresistor</u>

#### What Did I Do Today:

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#### Methodology:

 Explain the methods and tools used to complete the tasks. This might include software, hardware, or specific engineering techniques.

#### Challenges and Solutions:

- Problems Encountered: Detail any obstacles or challenges faced during the day.
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#### Observations and Insights:

- o Findings: Share any significant observations, data, or results obtained from the day's work.
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#### What Will We Work On Next Time?

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### 9/19

< Write a short overview paragraph of today's Goals...25+ words. This might be added at the beginning of class, and then edited by the end of class, as your exit ticket >

## **Entry Ticket:**

The topic I read about was the Meta Glasses article where they were talking about facebook or meta is making Glasses that are similar to the Apple Vision but in my opinion I believe that this is going to be a flop marketing because there are going to be errors like sensors not being able to capture surroundings and schools are going to put more restrictions on devices if anyone was caught using a pair of glasses for cheating. I don't think this is going to benefit the community but actually be more of a con than positive since it's just an overpriced pair of glasses just for social media.

## **Today's Class Notes:**

< Enter any class lecture notes here. You can include screenshots, images and diagrams. If you drew any notes, you can take a picture and post it here. >

## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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#### **Planned Task List:**

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	Task you are trying
	To accomplish today
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#### **Useful Reference Links:**

< List any links related to today's work >

#### What Did I Do Today:

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## 9/22 Talk and Code

< Write a short overview paragraph of today's Goals...25+ words. This might be added at the beginning of class, and then edited by the end of class, as your exit ticket >

## **Entry Ticket:**

I read about the medical tech article and it was about this system called the microsystem which is basically a machine designed by MICA for biomedical purposes and also going to be used for military research specifically for repairing machinery. This wouldn't personally affect me or the community at the moment due to microsystems being used towards military research but soon it can be on the market for medical purposes.

## **Today's Class Notes:**

```
const int analog_pin = A0;
const int LED = 7;
```



```
int digital_map_LED;
int ADC_val = 0;
void setup()
{
    Serial.begin(115200);
    pinMode(LED_BUILTIN, OUTPUT);
    pinMode(analog_pin, INPUT);
}

void loop()
{

    ADC_val = analogRead(analog_pin);
    Serial.println(ADC_val);
    digital_map_LED = map(ADC_val, 470, 600, 0, 255);
    analogWrite(LED, digital_map_LED);
}
```

## 9/23

## **Entry Ticket:**

• The Topic I read was the "Too dependent on ai already" because its been at least 5 years if not more since Ai has been presented to the public and something interesting I found about this topic is that Israel of all countries are more likely, 8x more likely to use AI for tasks but not like day to day public task its more faced on government. What surprised me is that people still use AI even if it gives false information sometimes. Ai is still developing and will likely evolve into the point where AI can be universally used.

## **Today's Class Notes:**

https://github.com/MogGlaze/Arduino-C-/blob/main/Code\_Lab.ino

## **Robot Club - Drone**

**Planned Task List:** 

**Useful Reference Links:** 



#### What Will We Work On Next Time?

□ Talk to Burnam about the parts

### 9/25

## **Entry Ticket:**

I read about ready player one and I was interested in it because I already watched the movie and the part where I left off from the book was where the main character Parzival defeats the lich king in an arcade game to receive the copper key.

## Today's Class Notes:

< Enter any class lecture notes here. You can include screenshots, images and diagrams. If you drew any notes, you can take a picture and post it here. >

## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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#### **Planned Task List:**

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□ Та	sk you are trying
□ To	accomplish today
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#### **Useful Reference Links:**

< List any links related to today's work >

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#### Challenges and Solutions:

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- Findings: Share any significant observations, data, or results obtained from the day's work.
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What Will We Work On Next Time?

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### 9/26 SUPER SONIC SENSOR

I chose the topic Apple builds an AI app to help with revamped Siri because I wanted to see if this was not a joke and apple is finally making something that is useful and efficient. In the earlier versions of siri, there would be times when there would be problems, specifically siri not catching up with the speaker. I think this will only benefit IOS users. That's all it will not benefit any android users like myself and I will have to see how the AI app works with Siri.

## **Today's Class Notes:**

Robot Club - <Work or Project Title for today>
What Did I Working On Today (Robot Club, Other Projects):

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What Will We Work On Next Time?



## **Entry Ticket:**

I chose the topic of Chatgpt collaboration with google because chatbot has already evolved from the past and now it is collaborating with a major tech company. But the only things I find holes in this is that Chatgpt is still has a frequency of feeding false information and could lead people making mistakes. When I was reading the article I found out that they are going to make CHATGPT users able to directly buy stuff with chatgpt and I was skeptical with this for the same reasons before. I feel like this is not going to have a significant impact due to the fact it feels like an extension.

## **Today's Class Notes:**

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#### Planned Task List:

< List each > (ProTip: Look At Your "What Will I Work On Next Time?" list)	
☐ Task you are trying	
☐ To accomplish today	
☐ check off each that you actually did. the ones you did not, could be on your "Work On Next Time" list	t
at Did I De Tadam	
at Did I Do Today:	

### What Will We Work On Next Time?

## 9/31

< Write a short overview paragraph of today's Goals...25+ words. This might be added at the beginning of class, and then edited by the end of class, as your exit ticket >

## **Entry Ticket:**

I read about the life of Nikola Tesla in Spanish because I wanted to learn more about the inventor and to
practice my Spanish reading skills. What I found interesting is that in high school he had a deadly disease
called Colero.

## **Today's Class Notes:**

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## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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P	lan	ned	Tasl	۷ I	ist:

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#### • Observations and Insights:

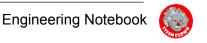
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#### What Will We Work On Next Time?



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

## **Entry Ticket:**

The article I chose was the top 10 chatbots and what's so interesting about this is that all of them have very similar capabilities like writing the answer to a question or giving you information about the given topic. The only main difference is their funding and accuracy where Deepseek has less funding but tends to be more accurate than tech ai giants like microsoft.

## Today's Class Notes:

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## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

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What	Will	We	Work	On	Next	Time?
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## 10/13/25

## **Entry Ticket:**

I chose the topic" Idea to app in 5 minutes without code" because I was curious about what an app looks like without a single piece of coding at all. I found out that the article talks about the recent news and laws about Al like Gavon Newsom signs an Al safety bill. Meta uses Al chat for content personalization and even sora 2 with their whole app that's like tiktok but only Al content. I don't believe this would benefit society if there were no Al laws because Al in the moment is currently breaking laws like copyright infringement or defamation.

## **Today's Class Notes:**

Robot Club - <Work or Project Title for today>
What Did I Working On Today (Robot Club, Other Projects):

Planned Task List:



#### What Did I Do Today:

#### What Will We Work On Next Time?

Presentations

### 10/15/25

## **Entry Ticket:**

The book I continued reading was "Death and life of superman" and the section im currently on right now is where Superman finally meets the justice league face to face including ones like Flash and Green Lantern but when Superman first saw them, they were being mind controlled by a robot named Xotar and he knew that they were helpless and they needed help and thats what superman did and he destroyed the mindcontrolling robot. Currently Superman has no idea who Xotar is and doesn't know he is a world threat.

## **Today's Class Notes:**

Servos/Servo Control

Servos can go only around 180 degrees. Servos contain (resistance,Potentimeter, DC motor) Every Angle is quantized H bridge turns the Servor Gear

## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

**Planned Task List:** 

What Did I Do Today:

What Will We Work On Next Time?

## 10/16/25

## **Entry Ticket:**

I read the article "Nvidia Stock Crashes" because I was curious about what the company is going to do about this historic crash and what the future steps will take. The total market cap loss was a staggering 600 Billion and this company crash also affected other major companies such as Microsoft and Amazon. The main catalyst from this crash was caused by the Trump 100% on china goods.



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# Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

**Planned Task List:** 

What Did I Do Today:

What Will We Work On Next Time?

### 10/16/25

### **Entry Ticket:**

The book I continue reading was Death and life of superman and after superman meets the justice league and knows who they are after, he joins them on the search for the villain Xotar to stop his plans from taking over the world with robots. An interesting thing I found is that superman knew who the justice league were and knew all of the members. Superman is currently researching with the Justice League on who Xotar and where they come from.

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Servos/Servo Control

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## Robot Club - <Work or Project Title for today> What Did I Working On Today (Robot Club, Other Projects):

**Planned Task List:** 

What Did I Do Today:



What Will We Work On Next Time?

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