+

Engineering Notebook

Mechatronics Engineering 2023-2024

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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:

<copy text between these lines>

<16/8/23> <Title - Daily/Weekly "Blog" Project Title - reading assignment>

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

Planned Task List:

What did you read? Why was is interesting?

- **Open Your Class "Engineering Notebook"**
- **Create an entry for today**
- **Write 1-3 sentences - about 10-30 words)**

(This will be worth 10-30 points extra credit, if you enter it today, when the assignment is due)

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

Today i read a book named "einstein" as you coils probably guess it's about albert einstein and his life as a physicist. It was interesting because it detailed how he thought about things and how his imagination and way of thinking where crucial in developing his theories

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

<copy text between these lines>

Circut video-

Ohm's law v=I R

- V represents the voltage (potential difference) across the circuit or component, measured in volts (V).
- I represents the current flowing through the circuit or component, measured in amperes (A) or amps.
- R represents the resistance of the circuit or component, measured in ohms (Ω).

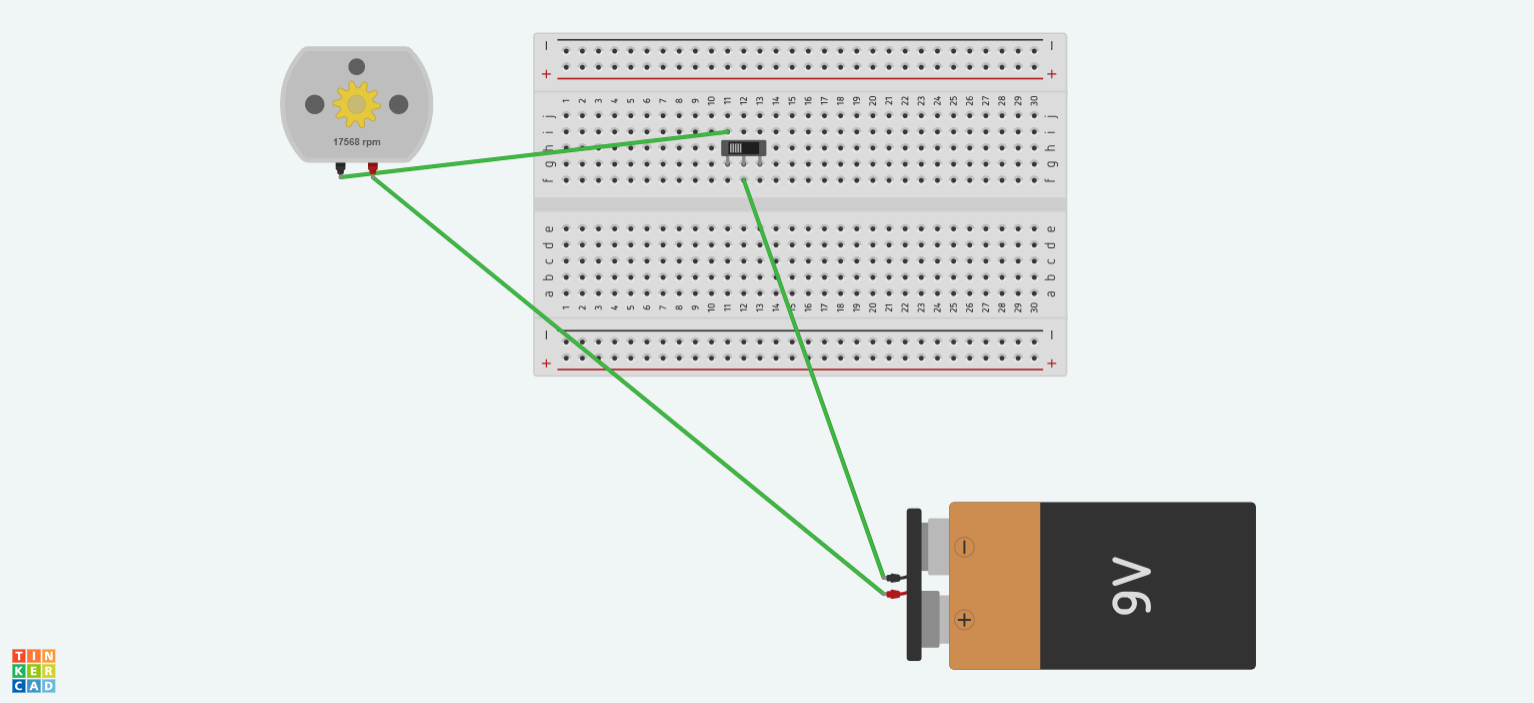
Voltage is measured in a difference between electrical potential from ground. Like a water hose for example or PSI

The 3 combinations of this equation are
R=v/I
I=v/r
v=IR

- R is the resistance (in ohms)
- V is the voltage (in volts)
- I is the current (in amperes)

engineering design challenges and have them work in teams to solve real-world problems. For example, design and build a bridge, a model airplane, or a simple electric circuit, and have students discuss their design process and findings in another language.

8/18/23

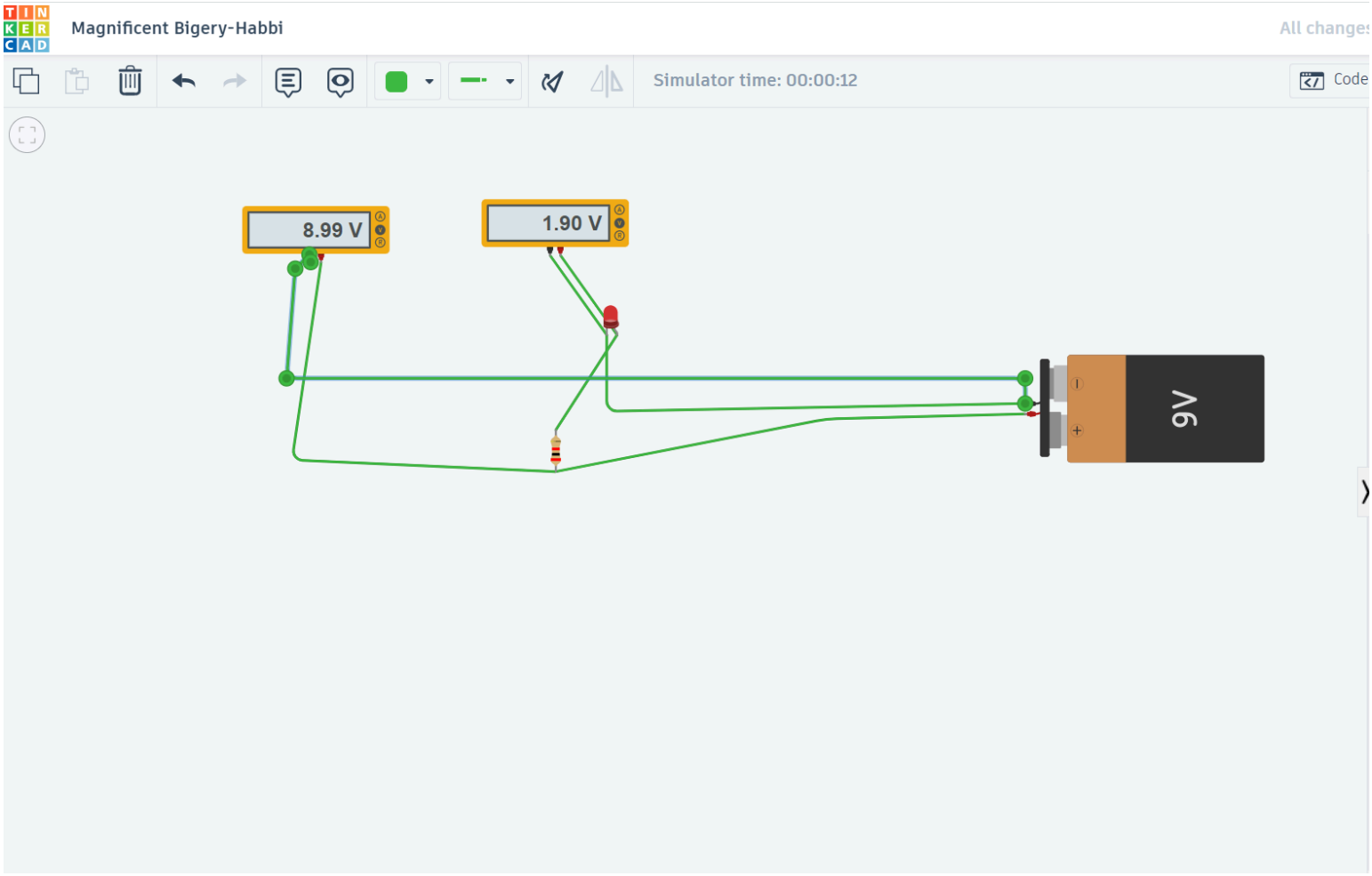


- In your Engineering Notebook, create an entry for today and create this table

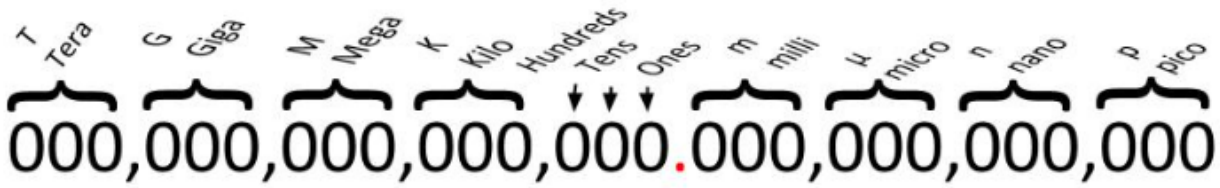
- Draw a Tables for each set of Resistors

Resistor #	Resistor Value (from color code)	Measured Ω	Measured Volts	Measured I	Calculated I
Resistor #1	1000ohm	983ohm	5v	5.20Ma	0.005
Resistor #2	4700ohm	4740ohm	4.17v	24.75 Ma	
Resistor #3	330ohm	327ohm	4.40v	15.39ma	
#4	1000ohm	992ohm	5v	5.18 Ma	0.005
#5	330ohm	333ohm	4.42v	15.33Ma	

8/19


Magnificent Bigery-Habbi
All changes
Simulator time: 00:00:12
Code
8.99 V
1.90 V
9V

Engineering Notation



8/21

I read a comic book named “the spire”, it’s about a girl who’s the protector of the city and has to solve a murder. The murder is important because it was the queens godmother and she would like it solved swiftly.

<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.

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?

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- small tasks you can complete in 30-60 min

<copy text between these lines>

8/23 in free lab I used my time to mess with my ardrino and try to make a second led light flash at the same time as the first

8/29

- How do we measure the total resistance in our series circuit?

You put your multimeter on each ends of the circut

- What about individual resistors?
- You connect your multimeter on each side of the resisto
- How do we mesure total voltage?

You add both voltages of each resistor

How do we mesure total current?

8W

Circuit	Measured R1	Measured R2	Measured RT	Calc R1+R2	Measured Vt	Measured V1	Measured V2	Calc Current	Measured Current
1	327 ohms	337 ohms	653 Ohms	665 ohms	5.16V	2.58V	2.58V	3.88	**4**
2	993 Ohms	327 ohms	1320 Ohms	1320 Ohms	5.17	1.279	3.89	3.19 mA	**3.96 mA**
3	1.989 Ohms	993 Ohms	2981 Ohms	2982 ohms	5.13	3.428V	1.71V	1.72 mA	1.71 **mA**
4	**1990 Ohms**	**682 Ohms**	**2671 Ohms**	**2671 ohms**	**5.14**	**3.8v**	**1.31v**	**1.92 mA**	1.91 mA

8/30

What did you read? Why was is interesting?

- **Open** Your Class "Engineering Notebook"
- **Create** an entry for today
- **Write** 1-3 sentences - about 10-30 words)

(This will be worth 10-30 points extra credit, if you enter it today, when the assignment is due)

I read about humans and their evolution. It was interesting because it explains a different theory into how it happened, it also uses facts about humans predecessors and their utilities throughout the last 2 million years

```
 int ledPin = 13;
 int ledPin2 = 12;
 int ledPin3 = 11;
 int buttonPin = 2;
void setup() {
  pinMode(ledPin2, OUTPUT);
  pinMode(ledPin3, OUTPUT);
  pinMode(ledPin, OUTPUT);
  pinMode(buttonPin, INPUT_PULLUP);
}

void loop() {
```

```
int buttonState = digitalRead(buttonPin);




if (Serial.print(buttonState) == 1) {
   delay(100);
  digitalWrite(ledPin, buttonState );
   delay(100);
  digitalWrite(ledPin2, buttonState);
   delay(100);
  digitalWrite(ledPin3, buttonState);
  delay(100);
  } }
```

What did you read? Why was is interesting?

- **Open** Your Class "Engineering Notebook"
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(This will be worth 10-30 points extra credit, if you enter it today, when the assignment is due)

I read about the human psyche and how it came to be. The book i read talks about how humans process thought and discusses what might give them the ability to do so, for instance they use hellen keller who

states that she was inable to process feelings names or anything else that people usually think about until she was taught language by her teacher.

9/8

Circuit	R1	R2	Calc R_1+R_2	Calculated V_T	Calculated I_T	Calculated V_1	Calculated V_2
1	330Ω	680Ω	1010 ohms	5v	4.95	1.67	3.366

2	1KΩ	2KΩ	3k ohms	5v	1.66mA	1.6	**3.2**
3	330	330	660 ohm	5v	7.5		
4							

- Calculate Using the New Formula=

Circuit	R1	R2	Calc R_1+R_2	Calculated V_T	Calculated V_1	Calculated V_2
1	330Ω	680Ω	1010	5	1.67	**3.36**
2	1KΩ	2KΩ	3k	5	1.6	**3.2**
3	680Ω	1KΩ	1680	5	2.02	**2.97**
4	329Ω	328Ω	657	5	2.5	**2.5**

~~Ohms~~ $V = i(r)$ $R_1 + R_2$

to find I you devide the calculated V by the total calc resistance

$5 = (i)\ 3k\ ohms$

$$V_x = V_t\left(\frac{R_x}{R_t}\right)$$

$i = V/R$

R_1 ~~1010~~

$$\left(\frac{330}{1010}\right)5 = V_1$$

R_2

$$\left(\frac{680}{1010}\right)5 = V_2$$

$$\left(\frac{R_2}{R_{total}}\right)\times 5 = V_2 = \left(\frac{1000}{1680}\right)5 = 2.97$$

$+ =$

~~1680~~

$$\frac{680}{1680} = (.404)5 = 2.02$$

9/11

Wrench Guide

A hand/power tool for turning, twisting, or holding an object.

How to use: aa
The wrench's head serves the purpose of clamping onto nuts or bolts, while the handle is where you grasp the wrench for the process of fastener tightening or loosening. All wrenches ensure a secure grasp on the fastener's head. After the wrench head securely clamps onto the fastener, you can turn the wrench to either tighten or loosen the nut.

Safety Issues:
https://www.ccohs.ca/oshanswers/safety_haz/hand_tools/wrenches.html#:~:text=What%20should%20I%20avoid%20doing%20when%20using%20wrenches%3F,-Back%20to%20top&text=Do%20not%20use%20push%20on,not%20use%20worn%20adjustable%20wrenches.

Video Tutorials:
https://www.youtube.com/watch?v=pN-b49fSzsU
https://www.youtube.com/watch?v=eRfTZpEmnys

Circuit	Measured R1	Measured R2	Calc R1+R2	Measured Vt	Measured V1	Picked V2	Measured Current
1	335	680	1KΩ	5.11	3.44	1.67v	**5.07**

9/12

Circuit	Measured V1	Measured V2	Measured Vt	Calculated R1	Calculated R2
1	0.817v	4.33v	5.16v	1.904 ohms	10.09ohms
2	2.625	2.521	5.16 v	6.09	6.25
3	3.176	1.974	5.16v	7.392	4.91
4	**4.08**	**1.05**	9.00 v	**9.48**	**2.722**

9/12

1. What is the primary function of a bandsaw in woodworking?
   a) Cutting straight edges
   b) Sanding surfaces
   c) Drilling holes
   d) Welding metal

2. Which component of a bandsaw is responsible for holding and guiding the blade in a continuous loop?

   a) Blade tensioner
   b) Worktable
   c) Motor
   d) Dust collector

3. What type of motion does a bandsaw blade primarily utilize during the cutting process?
   a) Circular motion
   b) Reciprocating motion
   c) Rotary motion
   d) Oscillating motion

4. Which of the following materials can a bandsaw commonly cut?
   a) Glass
   b) Rubber
   c) Stone
   d) Wood

5. What is the purpose of adjusting the blade tension on a bandsaw?
   a) To increase the speed of the blade
   b) To prevent the blade from slipping off the wheels
   c) To make the cut wider
   d) To change the blade's material composition

6. Which part of the bandsaw should be adjusted to change the angle of the cut?
   a) Blade tensioner
   b) Rip fence
   c) Upper wheel
   d) Table tilt

7. What safety equipment is essential when operating a bandsaw?
   a) Safety goggles and earplugs
   b) A chef's hat and apron
   c) Sandals and shorts
   d) A wristwatch and rings

8. Which of the following is NOT a common type of bandsaw blade?
   a) Skip tooth
   b) Hook tooth
   c) Toothless
   d) Regular tooth

9. What is the primary purpose of the rip fence on a bandsaw?
   a) To guide the workpiece during a straight cut
   b) To adjust the blade tension
   c) To control the blade speed
   d) To lubricate the blade

10. Which of the following factors affects the cutting speed and accuracy of a bandsaw?
   a) Blade width and tooth size
   b) Workpiece weight
   c) Ambient temperature
   d) Color of the worktable

Answers:
1. a) Cutting straight edges
2. a) Blade tensioner
3. b) Reciprocating motion
4. d) Wood
5. b) To prevent the blade from slipping off the wheels
6. d) Table tilt
7. a) Safety goggles and earplugs
8. c) Toothless
9. a) To guide the workpiece during a straight cut
10. a) Blade width and tooth size

<Picking a V2, 9/13/23>

Circuit	Derived V1	Pick V2	Measured Vt	Calculated R2	Measured R2
1	3.58V	1.42V	5.12V	360	341ohms
2	4.20v	1.16v	5.12v	226 ohms	229ohms
3	.43v	4.69	5.12	916ohms	915ohms
4	**1.8v**	**3.15v**	**5.12v**	**615ohms**	**614ohms**

RIDEABLE MINECRAFT PIG!!!!!

We want to use electric bike parts + use wood to create the minecraft pig model.

https://www.youtube.com/watch?v=vDhA3f_uSl8

- Already have the electric bike parts.
- Thick wood pieces
- Arduino
- Wires
- Maybe more wheels...

9/14

```
int led =4;
```

```
int myanalog = A0;



void setup() {
Serial.begin (9600);
pinMode(led, INPUT);
pinMode(myanalog , OUTPUT);

// put your setup code here, to run once:

}

void loop() {
// put your main code here, to run repeatedly
myanalog = analogRead(myanalog);
Serial.println(myanalog);
delay(200);

if(myanalog > 650){
digitalWrite(led , HIGH);
Serial.println(myanalog);
}
else{
digitalWrite(led , LOW);
}
}
```

Test	Brightness	Selected R_2	Measured V_2	Measured V_T	Derived V_P	Calculated I	Calculated R_P
1	**Covered**	995ohms	4.72v	5.02v	2.83v	2.22mA	1266Ω

2	**Some Light**	994ohms	3.23v	5.02v	1.79v	3.24mA	555ohms
3	**Room**	997ohms	4.25v	5.02v	0.77v	4.26ma	
4	**Brighter**	**923 ohms**	**4.3v**	**5.02v**	**0.64v**	**4.74mA**	
5	**Full Bright**	**997 ohms**	**4.9v**	**5.02v**	**0.12vv**	**5.3Ma**	

<Spin a Motor Lab, 9/18/23>

<Lab #1, SIMPLE WHILE LOOP>
Int ret = 0;
While (ret < 5){
Serial.println(var);
ret++;
}

<Lab #2, ANOTHER SIMPLE WHILE LOOP>
Int bru = 5;
while (bru <10){
serial.println(“hero”);
bru++;
}
serial.println(“uuuuuugh”);

<Lab #3, SIMPLE WHILE LOOP CHECKING A STATE>
Int button = 3;
Int buttonState = digitalRead(button);

while(buttonState == 0){
digitalRead(button);
serial.println(“hi”);

}
digitalRead(button);
serial.println(“bye”);

9/25

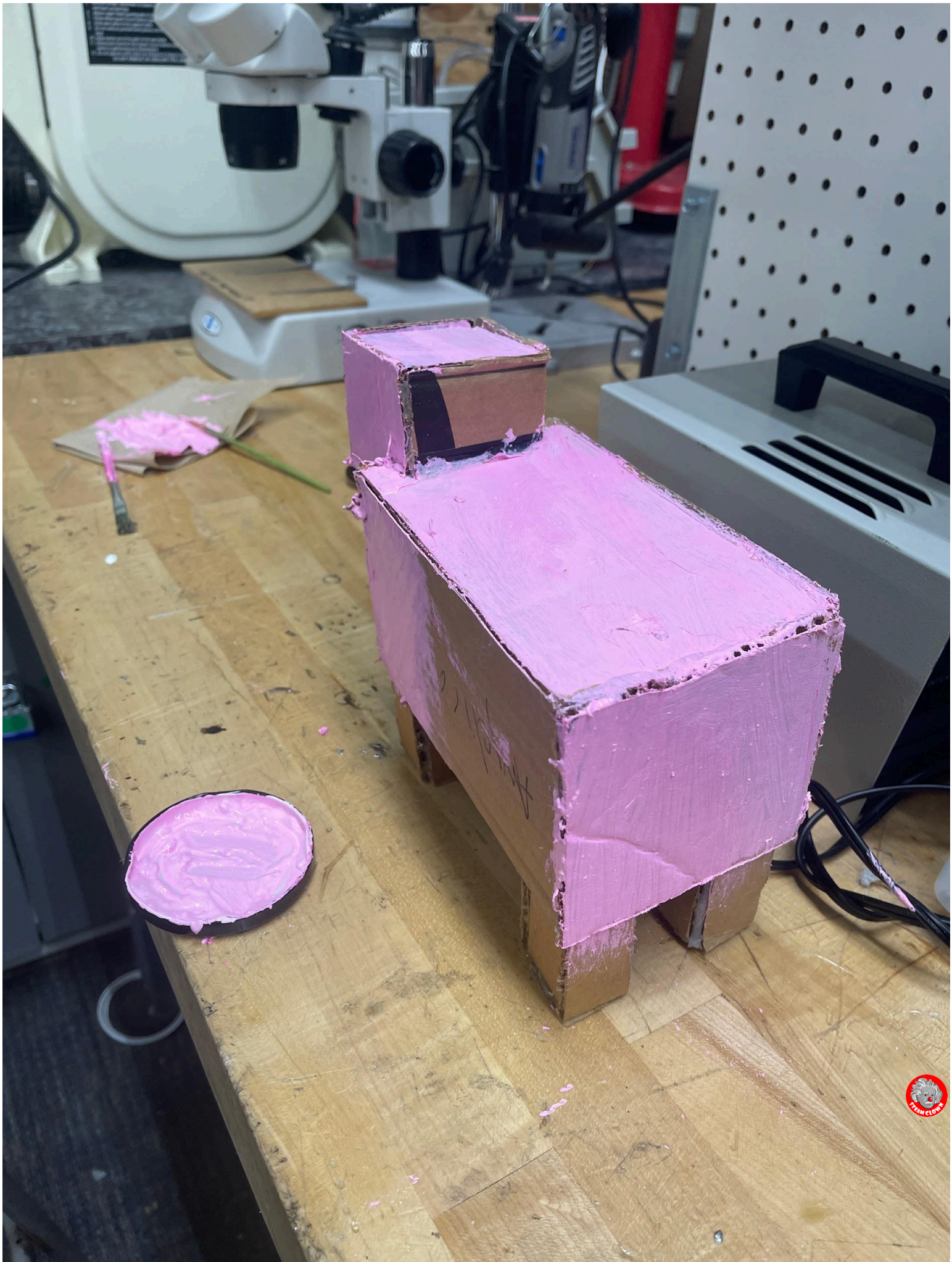
```
void setup() {
Serial.begin(9600);
}

void loop() {

for (int i = 1; i <= 100; i++) {
Serial.println(i);
delay(100);
}


}


\
```

9/26

I FINISHED UP THE PIGGY MODEL AND WE’RE HOPING TO GET STRTED TOMORROW

```
9/27 finished up past assignments and worked on piggy
```

What I did today⬇️



9/29
Today i worked on my project and went to the skills usa meeting

10/9 made charger for the bike that were gonna turn into a pig during open lab

10/11 i read about the wild robot, it's a book about how

10/16 This morning I read about how ai generated images cant be reliably watermarked so you wouldn't be able to tell the difference between the ai generated image and one created by an artist. This interested me because you could probably think up some cool stuff and sell it off as your art.

During open lab i worked on my car pig thing and resoldered my bristle bot. we don't know if its the batteries or just that it didnt have enough time to charge but the piggy doesnt turn on for now.

11/6 in my article Elon Musk unveils Grok, an AI chatbot with a 'rebellious streak'

- Links to an external site.

11/13: Today i read Huckleberry fin during rhe warm up

11/28

A) Engineers built a robotic arm that could help assist in quantum physics because of its accuracy and ability to perform tasks with more precision than humans can, they took their vision from surgical robots because of "[the robots] recognition for their precision in navigating intricate anatomical structures."
B) In the other article i read a flying car company finally got authorisation to test their product after the company was founded in 2017. These cars are fully electric and are expected to be on the market by 2026.

12/1
I read about the tesla sibertruck and about all the specs it had

12/5: this morning i read about how virgin airlines compleated 100 flights on sustainable fuel
Also about how much space junk is in our atmosphere

12/7
Google launched a powerful AI that it claims can surpass chat gpt called gemini, according to google it can analyze text, images, videos and can even give advice due to the fact it can process multiple types of info.

12/18 i read about the rayban glasses that use meta ai to identify things. Its basically like siri but on your face, it sometimes glitches and makes things up like it has dementia but it's pretty cool. I also read about an asteroid mining company that used space x to get into space that is now attempting to simulate a mining mission near earths orbit. They're practicing for their next mission which is an actual asteroid mining attempt.

1/9:
Today i read about how much money is in the world. There are 21.2 trillion US dollars circulating in the world with 45% being outside the US. also we will not be hit by an asteroid in the upcoming week

1/10
Today i read abpuit galileo and his contributions to the telescope, he didn't come up with the concept but he did end up making significant contributions to the magnification strength and clarity. He also gave sole producing rights to the king and senate without asking for anything but in increase in stature at his university.

Today i came in a little late but when i came in i learned about how a moon lander fuel valve malfunctioned and now it won't be able to land on the moon because of the lost fuel

1/18 design con is a conference about engineering topics like chips, boards, designs, and systems that power circuits. If you went to one of these they could probably give you some insight into the technology that goes into all of these companies products.

1/22

Today i read about apple having to call back their apple watches because they where infringing on another company mismo's patents for blood oxygen sensors. Apple had to call them back and resend ones with the sensor deactivated.

1/23 : i read about how the military plans on using artificial intelligence to pilot drone swarms and improve drone technology. For the next two weeks defense contractors have to demonstrate their interest in these business adventures
if i lived pre civilization dystopian world i would carry a backpack full of carrier pidgins so that i cpould keep constant contact woith my friends and family. i'd also offer the service foar a charge and call it twitter, this would also cause

twitter never to be founded because i'd copyright the name and make millions of dollars off of everyone who wants to talk to their family

1/30: today i read about a new cargo drone that's being launched and can carry up to 100 pounds, this is interesting because we're about to be in the era i always saw on tv where the future has drones flying around and delivering things to us, all we're missing now is a terminator. I also read about elon musk brain implants to help people who are paralyzed and i think if i where paralyzed it would be a good option, but not without me being paralised.

2/2
Today i read about how chat gpt "'probably" can't help create biowepons. A study was conducted where they took 100 biomedical students and tasked them with creating a biological weapon, they split the students into 2 groups with one using chat gpt to help and one using only the internet. The chat gpt team had a 8.8% increase in accuracy and a 4.42% increase in completion. This isn't a significant amount but i bet if i was knowledgeable biology student i would most definitely be able to build one with persistence.

2/9
We where thinking of using a pvc pipe with a spring mechanism inside to launch our tennis ball out the front once a pin was pulled. Our alternative is pressurized pvc or a trebuchet. Our team has been discussing the different possible configurations for the launcher.

2/13
Archer Aviation Inc., based in Santa Clara, Calif., has achieved Part 145 certification from the Federal Aviation Administration (FAA), a significant step toward its goal of commercial flight operations. This certification allows Archer to conduct specialized aircraft repair services, ensuring safety and compliance, crucial for running a commercial aviation business. The CEO, Adam Goldstein, sees this as a vote of confidence from the FAA in Archer's potential to operate urban air mobility services nationwide. Part 145 certification is vital for aviation operators and manufacturers, indicating adherence to strict safety standards and the ability to perform maintenance and repairs on aircraft components. Archer aims to revolutionize urban travel with electric air taxis, offering short, sustainable, low-noise, and cost-competitive flights. Their aircraft, like the Midnight model, are designed for rapid, efficient transportation within cities.
4

Today i worked on the dimensions for the piggies battery pack. We worked out how big it had to be and the configurations for the batteries. We decided on a back mounted pack with the batteries sitting on their side.

2/15
Today during the presentation i learned a lot about the microprocessor industry and how those chips are designed and produced.

2/26
- Tesla's latest clip showcases the Optimus humanoid robot walking smoothly.
- The footage was shared by Tesla's Optimus account on X, depicting the robot walking around a testing facility.
- Milan Kovac, Tesla's Head of Optimus Engineering, highlighted that the robot's walking speed has improved, reaching 0.6 meters per second 1.34 mph, a 30 percent increase from previous videos.
- Tesla previously shared a video of a second-generation Optimus prototype, which showed an earlier version of the technology.
- The company recently opened up 61 Optimus-related job positions, including roles for manufacturing and testing engineers.
- The Optimus project was unveiled by Tesla in August 2021, aiming to automate dangerous, repetitive, and boring tasks for humans.
- Elon Musk mentioned the possibility of shipping Optimus robots as early as next year.
- Updates from Tesla indicate that prototypes of the robots can perform various tasks, including folding laundry, balancing, and handling fine motor skills activities.
- Musk expects Optimus to be able to thread a needle within the next year.
- Original estimates suggest that the cost of the humanoid robot could be under $20,000 once it hits the market.

⅗ we talked about the vision pro and the technology that went into it. This was interesting because the vision pro recently was released by apple but it’s pretty underwhelming because of how much they hyped it up.

3/7 - Justin Werfel and his team at Harvard SEAS are developing technologies for robots to repair or replace damaged components in space habitats.
- The project aims to enable habitats to handle repairs autonomously to reduce the burden on astronauts.
- Challenges in designing robots for deep space habitats include multifunctionality and limited space for specialized robots.
- The team has developed multi-mode grippers that can adapt to different tasks, including maintaining a secure hold, precise positioning, and passive adaptation to object shapes.
- Soft robotic arms have been designed to stiffen up when needed for increased force and payload capacity.

- Robots are being designed to cooperate with astronauts through force sensing, allowing them to follow human guidance without explicit instructions.
- Strategies for designing robot-friendly hardware are being explored to simplify tasks for robots and humans.
- The project aims to provide more options for habitat designers and increase the capacity of habitats to handle unforeseen issues in deep space missions.

```
#
import RPi.GPIO as GPIO
import time

blink_led = 5
GPIO.setmode(GPIO.BOARD) # Note This is specifying the physical pins on the Raspberry Pi Header
GPIO.setwarnings(False)
GPIO.setup(blink_led,GPIO.OUT)

while(True):
  print("LED on")
  GPIO.output(blink_led,GPIO.HIGH)
  time.sleep(1)
  print("LED off")
  GPIO.output(blink_led,GPIO.LOW)
  time.sleep(1)
print('Done')
```

3/11 - Generative AI, particularly OpenAI's GPT 3.5, exhibits biases in hiring preferences, as discovered by Bloomberg's investigation.
- This bias could perpetuate racism in recruitment processes, especially as AI tools are increasingly integrated into hiring workflows.
- The investigation conducted experiments using fictitious names and resumes, revealing racial and gender bias in the AI's rankings for job candidates.
- OpenAI responded by stating that most clients don't use their software this way and often fine-tune responses to mitigate bias.
- Bloomberg consulted 33 experts for context, including AI researchers, recruiters, computer scientists, and lawyers.
- While not groundbreaking, the report highlights the ethical concerns of widespread generative AI adoption without addressing bias.
- The dominance of a few major players in the AI market limits diversity in both software and data, potentially compromising quality and reliability.

- Incestuous AI development, where models are trained on other AI models rather than human input, exacerbates the lack of diversity.
- Watchdogs like AI Now argue that having "humans in the loop" may not be sufficient to address these issues.

3/13 I finished all the quizzes i saw due on canvas learned about linux libraries and helped you when i was voluntold.
\

3/19
Today i finished most of the work assigned in class and worked on my robot club project for the duration of the open lab time. It was very productive and we got a platform secured to the pig for the battery storage.

3/25
This morning i read about nuralink, a new brain implant that elon musk claims can give blind monkeys their sight back. The company isn't very old and if they really can give them their sight back already nuralink is probably going to be pretty successful. However elon is known for fibbing and there's no actual evidence being provided so i don't really think they're quite there yet

4/15 today i read about how open AI fired 2 researchers for leaking information. This is interesting because they don't really provide any context as to why exactly they where fired but the article speculates that they've been responsible for all of the open ai leaks recently. This is interesting because if i was apart of such a big company i would wanna know why amd where they where sending this information and how it could affect the company.

4/16 One interesting topic off the top of my head is elon musks brain implants. I'm honestly only sceptical about putting a piece of hardware in my head because elon musk is the ceo of the company but other than that it seems like something that could enable a lot of disabled people, i belive in 25 years they'll probably have modifications that you can plug into your brain to help with day to day tasks personally i'd love a little computer in my brain if it came from like apple and had no adverse affects and I think this could be a reality in the foreseeable future just based on our previous technological improvements and how fast we're evolving in the tech world.

4/22 today i took a survey that tries to match you with a carrier based off of a standardized test. The recommended jobs for me where in the sales department like "sales representative" i'd enjoy being a salesman because you get to travel a lot on company time and your job is easy, just gaslight your customers into thinking your product is something they need.

4/30

Yesterday I wasn’t here because i had a field trip to uc berkeley, it was a wonderful experience but i don't like it, I prefer beaches and at the end of the day berkeley is in oakland so the homeless are rampant and it’s dirty. Today i read about the U.S. looking into development projects for reverse infrared technology that makes it so you can hide your infrared signature. This is interesting because it’ll allow for the military to hide troops more easily and would probably make it safer to go out at night for a lot of people.

5/1

Today i read about the wright brothers, though they where 4 years apart they where like twins. They ate together cooked for each other, and even had a joint bank account that they put money in from the same job that they worked. Ive only gotten far enough into the book where they’re still describing and giving characteristics to the characters so that’s all i know but it seems like a fye book.