

Engineering Notebook

Mechatronics Engineering 2023-2024

Anthony Morales

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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>

<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):

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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 Love To Read, Breadboards, Simon Ohm, Ohm's Law, Printers- Daily "Blog"

We're working on breadboards and leds. Also learning about simon ohm and ohm's law and finishing dismantling our printers. We read books for 30 minutes and I chose the book hawking. It's very interesting because it shows his early life as a scholar.

Planned Task List:

- breadboards
- Ohm's law
- Dismantle printers

Useful Reference Links:

-
-

Today's Class Notes:

vir

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+



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

Resistor #	Resistor value	Measure (ohms)	Measured volts	Measured I	Calculated I
1	11K ohms	10.99k	5.21	4.7364	0.00047364
2	2.7K ohms	2.65k ohms	5.21 volts	19.6604	0.00196604
3	330M Ohms	325.1	5.22 volts	16.0566	0.0160566
4	220	217.7	5.17	2.374828	0.02374828

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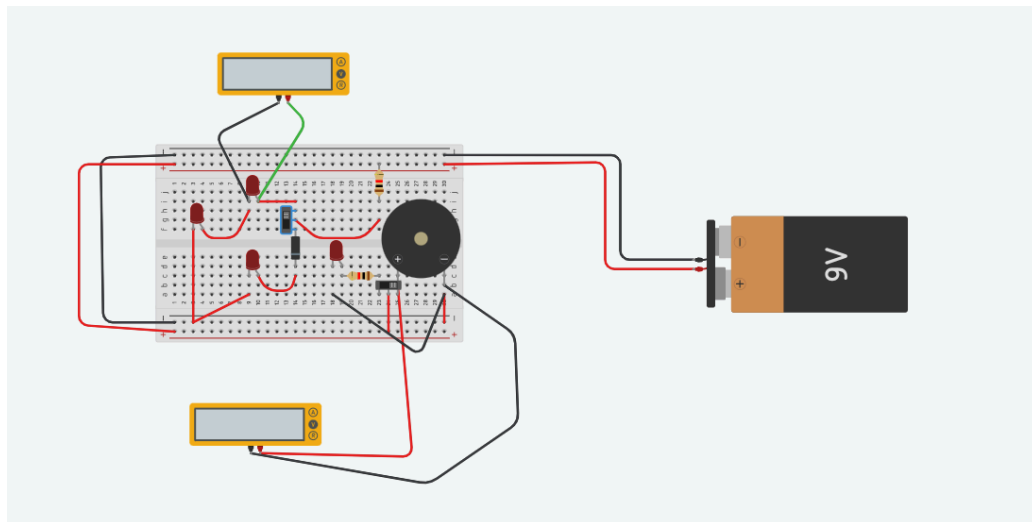
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Monday Aug, 21 2023 - STE'A'M Magazine, DMM, Ohm's Law, Engineering Notation, Printers



Planned Task List:

- Stem magazine
- Finish lab
- 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):

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Wednesday Aug. 23 2023 - Love Of Reading, DMM, SVCTE Orientation, Soldering & Printers

I read George's Secret Key to the Universe. This book is science informational and it gives an easier and child friendly approach to physics and science. The story involves a pig and a young boy and the boy explains topics about physics,

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

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8/25/23 book reading

I read a book about a story of a boy learning physics by stephen hawking.

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

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

We were fixing up the lego structure since once you pull back on the rubber band it would snap off since it was weak, so we had to find a sturdy base for the rubberband to rest on and be sturdy enough so when you pull back it wouldn't break. We took a while trying to fold the paper airplane over since it would crease wrong and be too solid.

8/29/23 series circuit

Measure values for your series circuit and document it on a table.

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

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

circuit	Measure d R1	Measure R2	Measure d RT	Measure d R1+R2	Measure Vt	Measure V1	Measure v2	Calc current	Measure current
1	.988k	.991k	1.980k	1.979k	5.19v	2.591v	2.598v	7.17mA	7.17mA
2	.468k	0.464k	0.923k	0.932k	5.19v	2.605v	2.583v	6.113mA	6.113mA
3	304.3k	300.2k	.604M	'604.5k	6.45v	3.225v	3.180v	7.054mA	7.057mA
4	.555k	.555k	1.112k	1.11k	0.07v	3.037V	3.040	7.182mA	7.2mA



Aug, 30 2023 - Love Of reading

The few pages of the book I read were pretty boring. I chose the book, "The Science of Interstellar". The pages I read were just him describing his past.

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Wednesday Sept, 6 2023 - Love Of Reading.

I read mining the moon by David A. Dietzler. This book is interesting because it explains the idea of mining the moon for different materials and an explanation on how to do it.

Planned Task List:

- Arduino
- AC/DC - Series Circuits - Voltage Dividers - Introduction\
- Airplanes

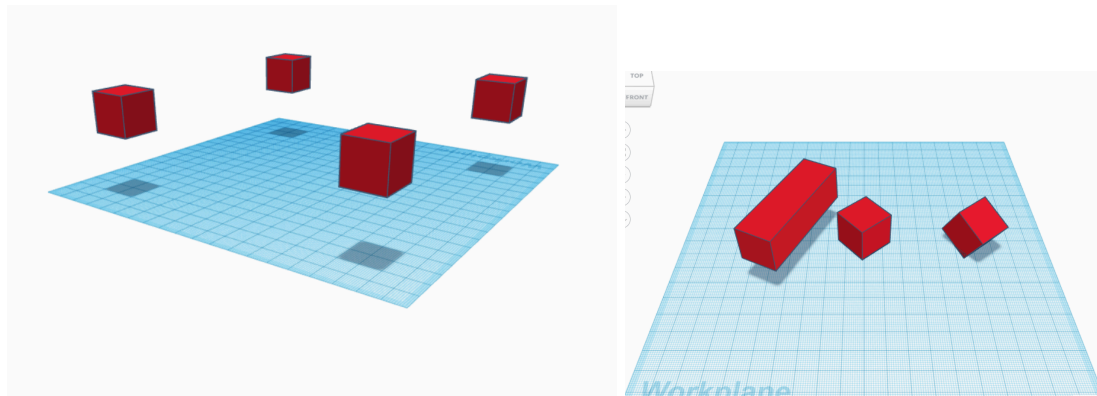
Useful Reference Links:

-
-



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

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



Friday Sept, 8 2023 - Voltage Dividers - Robot Club/Open Lab

Planned Task List:

- AC/DC - Series Circuits - Voltage Dividers - Finding V2
- Soldering
- Arduino

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	r1	r2	Calc r1+r2	Calc V t	Calc I t	Calc v 1	Calc v 2
1	330 ohm	680 ohms	1010 ohms	5v	4.95mA	1.67v	3.366v
2	1K ohms	2K Ohms	3K ohms	5v	1.66mA	1660v	3320
3	680 ohms	1K ohms	1680K ohms	5v	2.97mA	2019.6v	2970v
4							



circuit	r1	r2	r1+r2	Given v	v1	v2
1	330 ohms	680 ohms	1010 ohms	5v	1.63	3.36
2	1k ohms	2k ohms	3k ohms	5v	1.66	3.33
3	680 ohms	1k ohms	1680 ohms	5v	2.02	2.97
4	330 ohms	330 ohms	660 ohms	5v	0.5	2.5

circuit	r1	r2	v1	v2
1	1kohm	2kohms	3.070	3.85
2	680	1k	2.093	3.070
3				
4				

Monday Sept, 11 2023 - how to use tool

I chose a power drill and it works by pressing the trigger down and it starts spinning because the motor inside of it is being triggered and causes it to spin



How to:

- Make sure drill has battery
- Choose direction of drill
- Choose drill tip
- Press down trigger drill when screw is on tip

- Stop pressing down drill once it starts stripping the screw

Safety procedures:

- Wear safety glasses or a face shield (with safety glasses or goggles).
- Keep drill air vents clear to maintain adequate ventilation.
- Keep drill bits sharp always.
- Keep all cords clear of the cutting area during use. Inspect for frays or damage before each use.
- Disconnect power supply before changing or adjusting bit or attachments.
- Secure workpiece being drilled to prevent movement

Video how to:

<https://www.youtube.com/watch?v=Lh-am3qUN1c>

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-

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

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

circuit	r1	r2	rT	vt	v1	v2	current
1	299.2kohm	4.73k	303.93kohms	5v			

Tuesday Sept, 12 2023 - AC/DC Potentiometers, Tools, Solder, Robot Club/Open Lab

circuit	v1	v2	vt	r1	r2
---------	----	----	----	----	----



1	2.505v	2.611volts	5.12volts	4.75k ohms	4.96k ohms
2	1.897v	3.219v	5.12	3.66kohms	6.13k ohms

Tuesday Sept, 12 2023 - quiz questions

We made questions based off a wrench.

1 When using a wrench to tighten a bolt, what is the most important consideration for safety and efficiency?

- A) The size of the wrench
- B) The weight of the wrench
- C) The color of the wrench
- D) The length of your work breaks

2 Which type of wrench is best suited for loosening a rounded-off bolt head?

- A) Adjustable wrench
- B) Box-end wrench
- C) Pipe wrench
- D) Crowfoot wrench

3 What should you do if a wrench slips while applying force to a fastener?

- A) Tighten your grip and continue
- B) Curse loudly
- C) Inspect the wrench for damage
- D) Immediately apply more force

4 When using a torque wrench, what is its primary purpose?

- A) To ensure fasteners are tightened to a specified torque
- B) To measure the length of the bolt
- C) To determine the weight of the tool
- D) To count the number of turns during tightening

5 Which of the following is a safe practice when using a wrench to turn a fastener?

- A) Keep your fingers close to the fastener
- B) Apply maximum force from the start
- C) Use an extension for added leverage
- D) Work quickly to finish the task sooner

6 If you encounter a stubborn, rusted bolt while using a wrench, what is the best course of action?

- A) Use penetrating oil to loosen the rust
- B) Apply more force until it loosens
- C) Hammer the wrench to break the rust



D) Replace the wrench with a larger one

7 When working in a confined space with limited movement, which type of wrench would be most suitable?

A) Adjustable wrench

B) Box-end wrench

C) Pipe wrench

D) Strap wrench

8 What is the primary function of a click-type torque wrench?

A) To emit a clicking sound when tightened enough

B) To measure the length of the fastener

C) To provide a visual display of torque applied

D) To measure the temperature of the workpiece

9 What should you do if you notice a wrench is damaged or has a loose handle while working?

A) Replace it immediately

B) Continue using it cautiously

C) Tighten the handle with pliers

D) Ignore the issue; it won't affect performance

10 When storing wrenches in a toolbox, which method helps maintain their safety and organization?

A) Hang them on hooks

B) Toss them in randomly

C) Arrange them by color

D) Keep them in a pile at the bottom

Answers:

A) The size of the wrench

A) Adjustable wrench

A) Tighten your grip and continue

A) To ensure fasteners are tightened to a specified torque

A) Keep your fingers close to the fastener

A) Use penetrating oil to loosen the rust

A) Adjustable wrench

A) To emit a clicking sound when tightened enough

A) Replace it immediately

A) Hang them on hooks



Wednesday Sept, 13 2023 - Love Of Reading, AC/DC Potentiometers, Tools, Robot Club/Open Lab, Solder

I read elon musk by ashlee vance and its interesting because it talked about elon's upcoming early years. Elon musk used to live in a bad neighborhood in san francisco and stayed there in the year 2000. This was very interesting because he wasn't born into a rich life and he actually had to grind to it.

Planned Task List:

-

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	Derived v1	pickv2	Measured vt	calculated r2	Measured r2
1	1.409volts	3.591volts	5 volts		8.68k OHMS
2	2.697volts	2.303 volts	5 volts		
3					
4					

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

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



	brightness	Selected r2	Measured v2	Measured vt	Derived vp	Calculated I	Calculated Rp
1	covered	10k ohms	3.103volts	4.97volts			
2	Some light	10k ohms	4.32volts	4.97volts			
3	room	10k ohms	4.27volts	4.97 volts			
4	brighter	10k ohms	4.58 volts	4.97volts			
5	Full Bright	10k ohms	4.83volts	4.97volts			

Wednesday Sept, 20 2023 - Servos, 37 Sensors, Arduino, Tools, Robot Club/Open Lab

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Useful Reference Links:

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-

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

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

During the time we had during open lab time, me and my partner were developing the code to our escape room project. I also re printed my keychains to make them look better since last time, they came out sloppy.

Wednesday Oct, 11 2023 - Love of Reading, SkillsUSA, Explora Vision, Ultra Sonic, Robot Club/Open Lab

I read a terraria book and it was interesting because they fight a lot./

Planned Task List:

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Monday Oct, 23 2023 - SkillsUSA Forms!!!!, Explora Vision, Arduino Sound (Piezo), Halloween, Robot Club/Open Lab

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Tuesday Nov 7, 2023 - Arduino Functions, Cosmic Quest, Soldering, Halloween Clean Up, Open Lab to catch up, Robot Club/Open Lab

I chose "Child-type Android "Affetto " Ver.3 Autonomous Facial Expression of Calm, Happy and Curious". The topic of the video was an android baby making different facial expressions like happy, calm and curious. I learned that robots that look human but aren't are very creepy and I got an uncanny valley sensation from this video because he looks too real. I found this interesting because I believe soon they're going to make more creepy looking robots in the future. This technology could be used in real world situations like from that one game detroit: become human. Robots could be used as servants and used as companions to help people with their everyday life. If I were to tell somebody to watch this I'd say look at this creepy baby.

Planned Task List:

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

Useful Reference Links:

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-

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Wednesday Nov 8, 2023 - Arduino Functions, Cosmic Quest, Soldering, Halloween Clean Up, Open Lab to catch up, Robot Club/Open Lab

Alexander grahambell was a great inventor and teacher. Alexander graham bell paved the way for telephones to be created

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):

Monday Jan 22, 2024 - Python, Semiconductor Industry, Robot Club, SkillsUSA, Revolution Robotics

Today's Class Notes: open ai ceo is working to create new ai chip factories by saving up money. This could put open AI in "big league competition" putting the OpenAi company right beside google and amazon. Sam altman was looking to raise billions of dollars for this idea of technology working to change the future.

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

What Will I Work On Next Time?

<2/26/24> <article>

This article talks about tesla's new robot and how it is starting to walk around their workshop and how it looks with its new and more fresh look that it has compared to the old videos of it. Also saying that the robots could be sent to people as early as next year to their homes and with time it is set to remove some of the dangers that it has. Also eliminating the way people have to do repetitive tasks with the robot. Elon musk is expecting the robots to be able to thread a needle by next year and it could cost up to 20.000 dollars.

<3/7/24> <article>

The apple vision pro article was interesting since it showcased the features and complex ways needed to fix the headset. Also since apple is such a popular technology company, their brand new products are hitting headlines frequently. The article stated, "many observers would be surprised if such a complex product would be even remotely repairable for a DIYer." This is significant because the apple vision pros are such a new product so people are still going to figure out on ways to repair them easily whenever they are in need of a repair.



<3/20/2024> <what we did today>

For hours we were working on our robot club code and working on past assignments regarding python



<4/17/2024> <WEB PAGE>

Apache2 Debian Default | x +

Not secure | 10.178.202.80

```
-- conf-enabled
-- *.conf
-- sites-enabled
-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.
- The binary is called `apache2`. Due to the use of environment variables, in the default configuration, `apache2` needs to be started/stopped with `/etc/init.d/apache2` or `apache2ctl`. **Calling `/usr/bin/apache2` directly will not work** with the default configuration.

Document Roots

By default, Debian does not allow access through the web browser to any file apart of those located in `/var/www`, **public_html** directories (when enabled) and `/usr/share` (for web applications). If your site is using a web document root located elsewhere (such as in `/srv`) you may need to whitelist your document root directory in `/etc/apache2/apache2.conf`.

The default Debian document root is `/var/www/html`. You can make your own virtual hosts under `/var/www`. This is different to previous releases which provides better security out of the box.

Reporting Problems

Please use the `reportbug` tool to report bugs in the Apache2 package with Debian. However, check **existing bug reports** before reporting a new bug.

Please report bugs specific to modules (such as PHP and others) to respective packages, not to the web server itself.

← → ↻ Not secure | 10.178.202.80

IT WORKS!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is **fully documented in** `/usr/share/doc/apache2/README.Debian.gz`. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

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Thursday April 18, 2024

I chose the Boston dynamics article and I believe the robot is important because it's the future of technology and robotics and it could benefit the world in many ways. X

<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?

- (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



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<https://skribbl.io/?b5C4PwGR>

