

Day 1

Thu, Sep 7, 2023

Today I bought an Arduino kit from Amazon which contained many of the parts I need for this project like an Arduino Uno R3, motors, wires, and many more things. Before I bought this kit I did some research about Arduinos and decided that I will use an Arduino Uno as it was cheap, small, and is easy to use.

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Day 2

Tue, Sep 19, 2023

Today I received my kit
from Amazon and used
it to do simple things
like blink the light on
the Arduino using pre-made
code.

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Tus, Sep 19, 2023

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from Amazon and used
it to do simple things
like blink the light on
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Day 3

Tus, Sep 26, 2023

To day I made my own code which made 1 servo move left and right. Then I decided to try to make 2 servos turn. So I sent a link to my partners on what servos I wanted.

Day 4

Fri, Oct 2/08

To day I got my 10 servos. I wrote a code that would control 5 servos but when I wired it, they started to smell like something was burning. When I looked closer I had the servos connected to the 3.3 volt but the input power was set at 5 volt. Now 2 of the servos are not working.

Day 5

Sat, Oct 22, 03

Today I was able to fix my wiring and was able to make 5 servos move all together. Today I also decided to make a line following robot for my science fair.

Day 6

Thu, Nov 9, 2023

Today I received all the parts I need for my line following robot. The parts that I received included: L298N motor driver, robot kit, sensors. I also wrote my first line following robot program. Guess what it did not work at all!

Day 7

Tues, Nov 14, 23

Today I was able
to track down my problem.
I found out it was
my 9 volt battery. So
I had to get a
new one. But still it
did not work.

Day 8

Thu, Nov 23/23

To day I found that the problem was that one of my motors was burned out so I had to ask my parents to order some new ones from Amazon. My program was also giving me a 'Syntax Error' so I had to fix that.

Day 9

Monday, Dec 11, 2023

Today my motors here came. I was able to make my line follower robot, but I also needed to build a circle to test the robot. The robot ran but did not follow the black line. It had a mind of its own. Today I was also able to learn how to tune the sensors which I had to do. But even after tuning the sensors it still did not work.

Day 9

Monday Dec 11, 2003

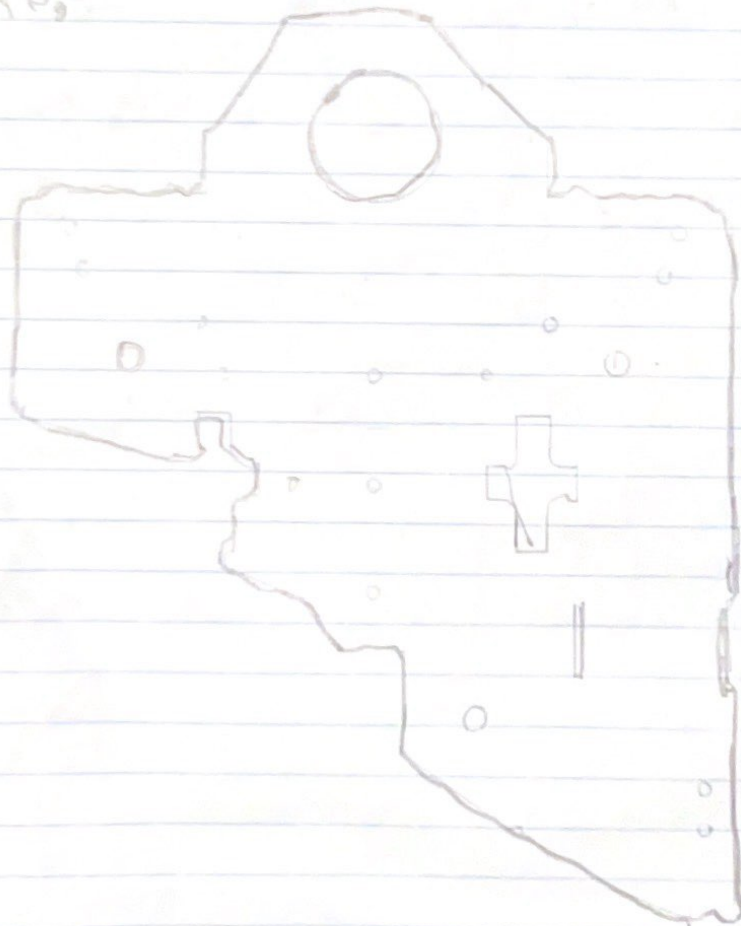
Today my motors here came. I was able to make my line follower robot, but I also needed to build a table to test the robot. The robot ran but did not follow the black line. It had a mind of its own. Today I was also able to learn how to tune the sensors which I had to do. But even after tuning the sensors it still did not work.

Day 10

Thu, Dec 21, 23

To day I made a track using black board which worked better.

I was about to test it when the robot chassis broke.



Day 11

Fri Dec 22, 23

The reason my chassis
broke yesterday was
due to me using screws
and over tightening them. So I bought a new
chassis and instead of
using screws I used double
sided tape to mount all
the pieces.

Day 12

Sat, Dec 23, 23

Today I was able to test my line follower robot and it worked somewhat. The robot ran good in one direction but not in the other. After adjusting the sensors and the track it started working. I was happy and went to bed.

Day 13

Dec 30, 2023 - Jan 3, 2024

Many test runs were done
but the robot would work one
day and not the other. Upon closer look

the sunlight was causing the
sensors to not work properly.

More adjusting was needed.

After more adjusting the robot
works.

Day 14

Jan 5, 2023

Today I was able
to take my videos and
results.