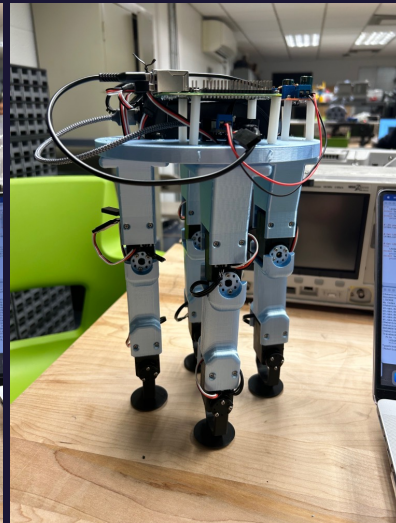
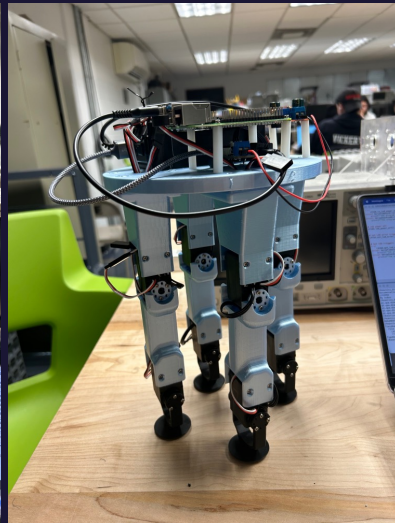
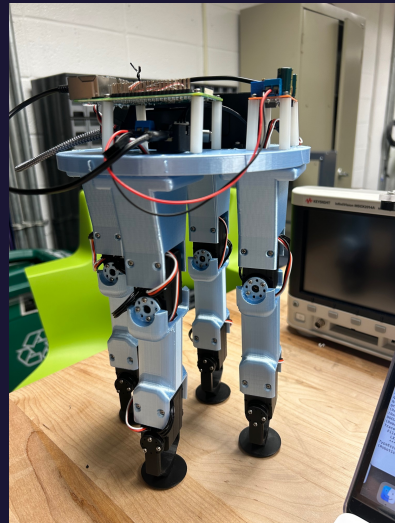
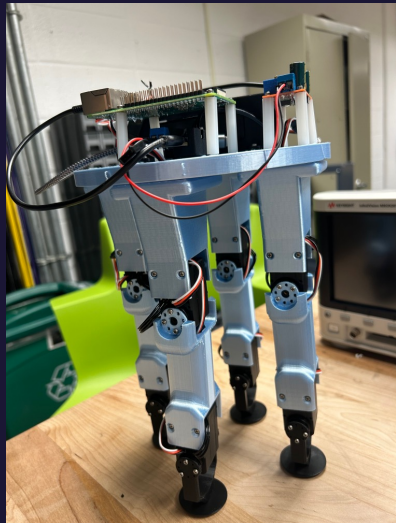


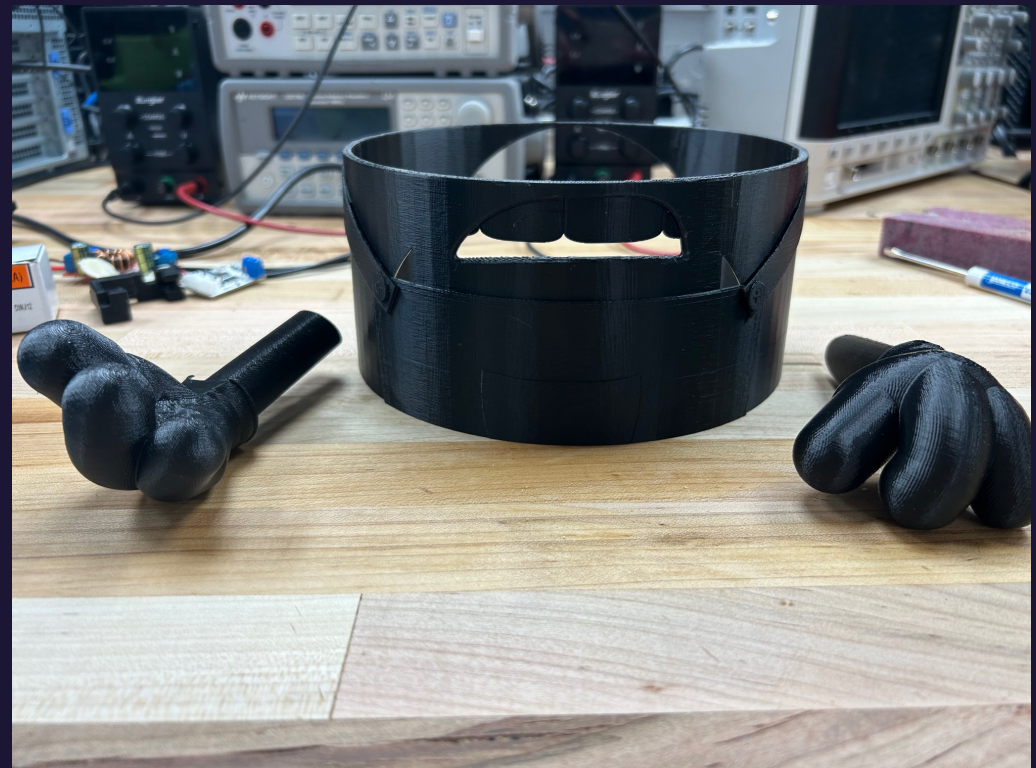
Robotics Studio MECE 4611  
Spring 2024  
Assignment VI  
Nicolino Primavera (ncp2136)  
Submission:  
Grace hours: 151:20 + 5:15 hours  
Bob the Minion  
General Robot Rendering

# Completely Assembled Robot



# Printed Minion Parts

- Still need to print the top of the minion head → will do that after I have completed walking and am ready for the final assembly





# Robot Moving – Test

- [https://drive.google.com/drive/folders/1yZS1oX3Cz2ZRKnKUxALOfD9zRP9MjAy?usp=share\\_link](https://drive.google.com/drive/folders/1yZS1oX3Cz2ZRKnKUxALOfD9zRP9MjAy?usp=share_link)
- Testing robot movements and stability

# Multiple Walking Patterns Tested

- [https://drive.google.com/drive/folders/1Uxje2eZruJtovWXzQS4zDa0HuHiG48d7?usp=share\\_link](https://drive.google.com/drive/folders/1Uxje2eZruJtovWXzQS4zDa0HuHiG48d7?usp=share_link)
- Testing multiple walking patterns and stability

# Rubric Checklist

- 5 Points Title slide complete (Slide 70)
- 5 Points overall aesthetics, layout and formatting of the slides (All slides)
- 10 Points glamour photo of working robot (Slide 71)
- 10 Points robot moving (frames shown + link to video) (Slide 73-74)
- 10 Points Plotted motor angles as function of time
- 10 Points Robot speed measured (cm per cycle, cm per sec, robot sizes per cycle)
- 10 Points Robot stability verified in various locomotion configurations (Slide 73-74)
- 10 Points all components properly bolted and connected (Slide 71)
- 10 Points 3D-print quality, support structure removed (Slide 71)
- 10 Points Robot sanded and painted (Slide 71)
- 10 Points Multiple walking patterns tested (Slide 73-74)
- 10 Points Cables routed properly and securely (Slide 71)
- 10 Points motors controlled directly from Raspberry Pi
- 10 Points motors powered using battery (Slide 73 - 74)
- 10 Points post some video of the walking robot on Discussion Board (show screenshot, provide link) (Slide 76)
- 10 Points post video of your robot on your online portfolio (include screenshot and link)
- 10 Points Robot ongoing health test routine implemented (Slide 73 - 74)
- 10 Points Robot shutdown routine implemented (Slide 73 - 74)

# ED Discussion Post

**ed** MECE 4611 S1 – Ed Discussion

New Thread

COURSES

MECE 4606162

MECE 4611 S137

CATEGORIES

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Robot Parts Ordering

General Dominik Nasilowski STAFF 2mth

3D printing requests

General Dominik Nasilowski STAFF 2mth 2

Show 3 more

This Week

Baby Steps

Working robot Nico Primavera now

Baby steps.

General Jialong Ning 20h

Baby Steps - Group 13 - Zelin & Dimitris

Working robot Dimitris Anastasiou 22h

Baby Steps #150

N Nico Primavera

Now in Working robot

STAR

WATCHING

1VIEW

Hi all,

Attatched is a google drive folder with videos of my robot walking (kind of).

<https://drive.google.com/drive/folders/1jR4rS8qodq7l3pZfr3kWzH4Xvrntf-dC?usp=sharing>

Comment Edit Delete ...

Did you find a solution to your question?

Answer your question