

# Cycle Bot Day 1

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04 May 2020

## Team Members

Shreya Rastogi, Jai Garg, Chinmay Palaye

## Daily Report

We had a personal meeting with my teammates on discord to know each other better and to make a plan for working the project.

It was discussed that Chinmay will handle V-rep simulations whereas Shreya and Jai will read more research papers about the project and try to derive mathematical equations for the model. Jai will also help Chinmay in making the 3d models on fusion 360.

## New Things Learned

- We read a number of papers on reaction wheel and cycle bot
- We got familiar with V-rep Software

## Resources

- [https://www.matec-conferences.org/articles/mateconf/pdf/2018/11/mateconf\\_eureca2018\\_02009.pdf](https://www.matec-conferences.org/articles/mateconf/pdf/2018/11/mateconf_eureca2018_02009.pdf)
- <https://sci-hub.tw/https://www.morganclaypool.com/doi/abs/10.2200/S00085ED1V01Y200702CRM001>
- <https://sci-hub.tw/https://ieeexplore.ieee.org/abstract/document/6130176>
- [https://www.youtube.com/watch?v=Ufcv\\_WLuKo4](https://www.youtube.com/watch?v=Ufcv_WLuKo4)
- <https://www.youtube.com/watch?v=WB0zCufrHOM&list=PLK0jpMYIBd6DWhiLP5Gzp4jN1MM0vx9ek&t=0s>
- <https://www.youtube.com/watch?v=4kfBEaTncjI&start=1235s>

## TASKS ASSINGED

1. Chinmay will be learning more about V-Rep
2. Jai and Shreya will read more papers about the project

## Tomorrow's Agenda

1. Derive Equation of motion
2. V-Rep and fusion Testing