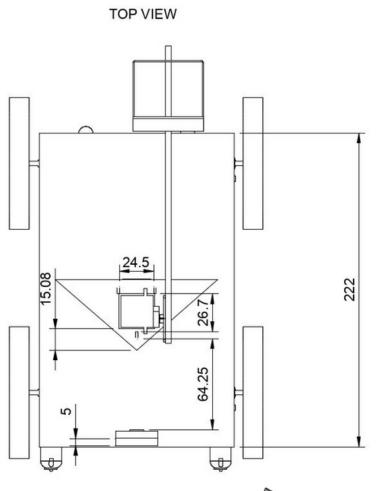
ARYAMAN SHARMA

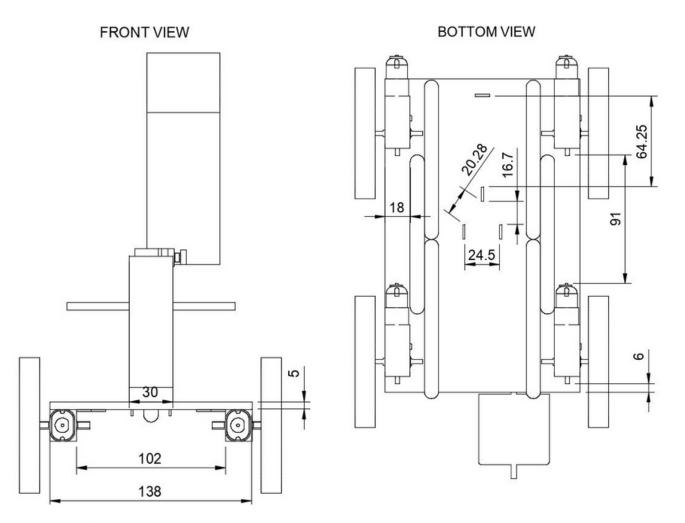
Mechanical Engineering at National University of Singapore

🖾 <u>aryaman.sharma@u.nus.edu</u> 👸 www.linkedin.com/in/aryaman--sharma 🕻 +65 93520861

Documentation of my Arduino Robotics Competition Project

Link for summary video Link for animation of Robot





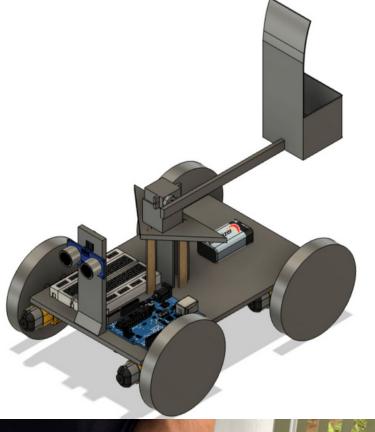
What are these pictures?

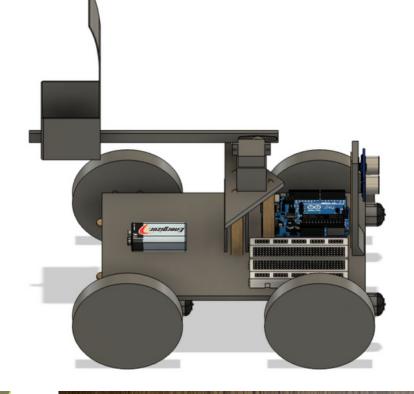
On the left are schematics and pictures of the robot that I had created for an arduino competition.

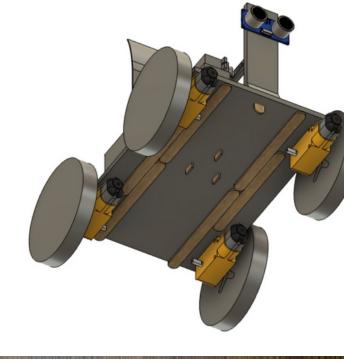
What was the competition about?

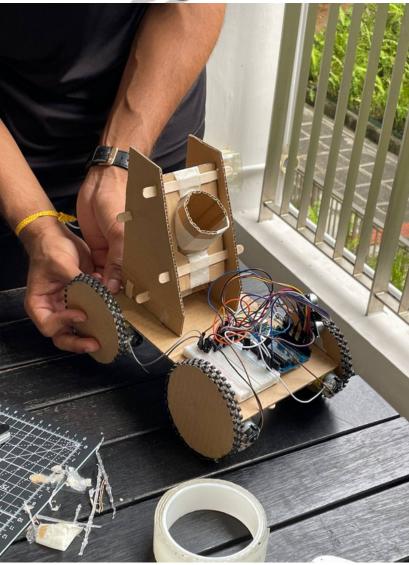
I had to create a robot that was light as possible and could the overcome following obstacles:

- an inclined and declined slope
- a rectangular box
- stop within 1cm of a 30cm wall
- Launch a ball over a 30cm wall

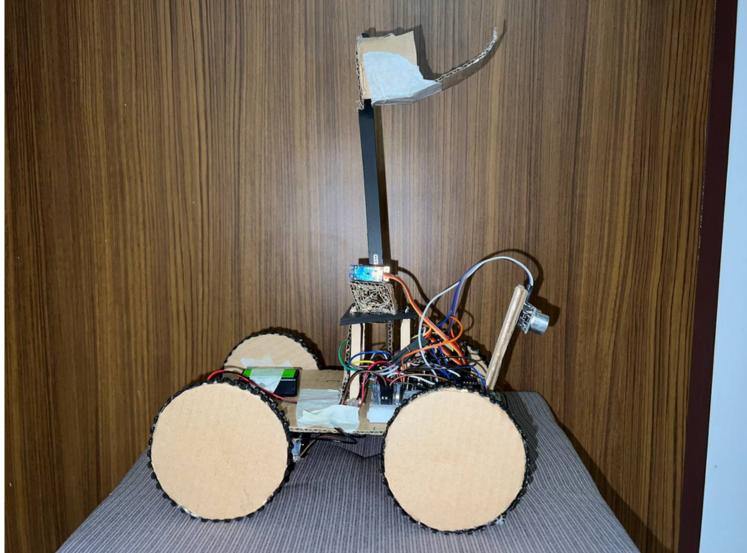








1st Iteration of our robot



Final Iteration of our robot

Skills learned:

- Arduino IDE
- C++ language
- Autodesk Fusion 360 -CAD-ding
- Programmable Circuit **Board Creation**
- Electronics Troubleshooting
- Monitoring circuit components on Arduino IDE