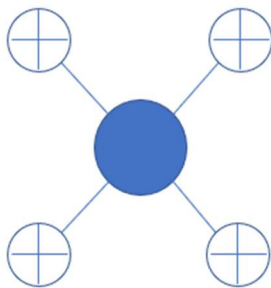


Meeting with Dr. Kaipa

Time: 2:00-2:30

Location: Dr. Kaipa's laboratory

- Next meeting:
 - Set up a meeting place in a conference room for next Thursday from 2:00 – 3:00.
 - Study all the components of the vehicle
- Front view drawing of existing vehicle



- 4 thrusters for pitch and yaw motion
- Brushless DC motors
 - Motors purchased from Blue Robotics in Canada
- Vehicle was designed from scratch.
- 3D printed in 4 parts
- Main issues:
 - Waterproofing: 1 or 2 spoonfuls of water penetrated the inside of the vehicle after being under water for 45 minutes
 - Imperfect control system: 4 different potentiometers were used to control each thruster simultaneously
- Our goal: improve on existing vehicle
 - Improve waterproofing:
 - run tests to determine where water is permeating
 - Determine if water penetrates at specific places – consider partially submerging vehicle to test specific places
 - Determine if water penetrates only when vehicle collides with something
 - then implement seals
 - Improve control system: make a joystick based control
 - Minimize interior wiring
- Project scope: what can be done one year from now?
- Budget: Dr. Kaipa said we will determine that later as we determine what we need to purchase

