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