The Deliveroid Project:
Progress Report 2

Prepared by:
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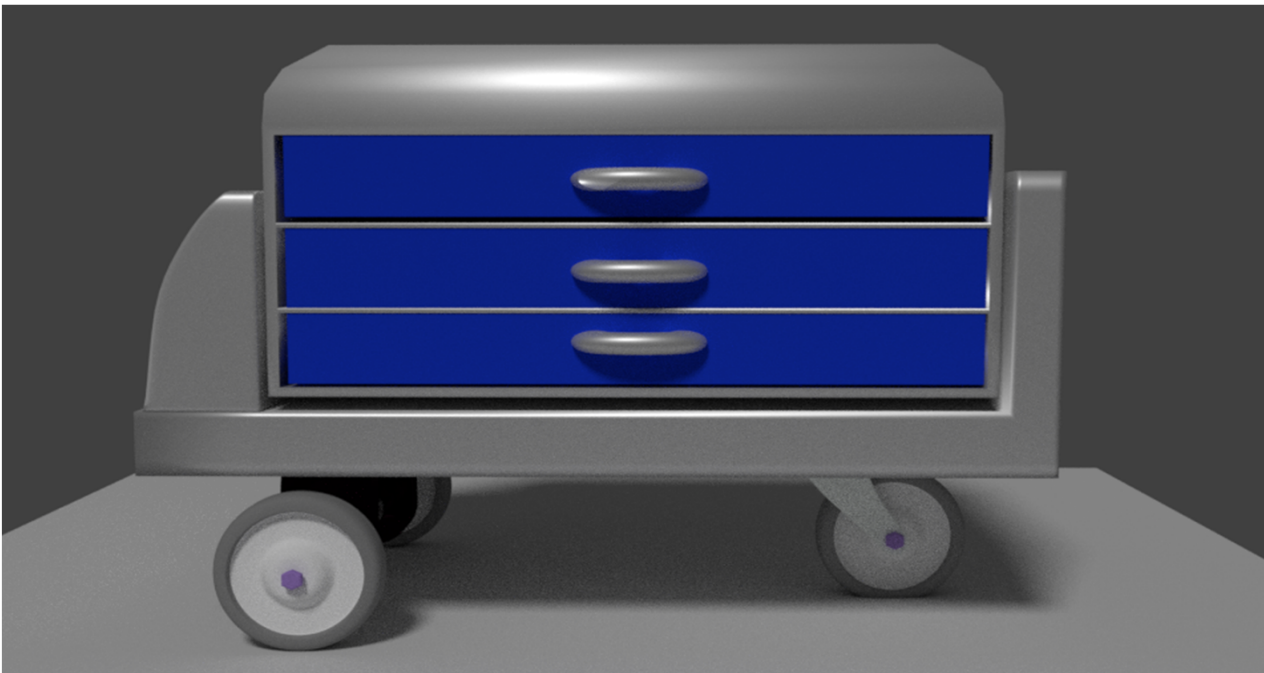
Milestone Summary

Month	Deliverables	Member in Charge	Update
February	2D Code Map	Conrad	Defining traversal boundaries
	3D Model of frame	Jonathan	Cleaning up Exact Measurements
	Network features code	Shelton	Coding features specifications
	Assembled Deliveroid Frame	ALL	In need of machine shop

3D Model of Frame with Proper Measurements

Height of carriage - 9 in

Total Height - 19 in

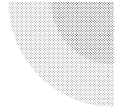Width - 16 in

Length - 22 in

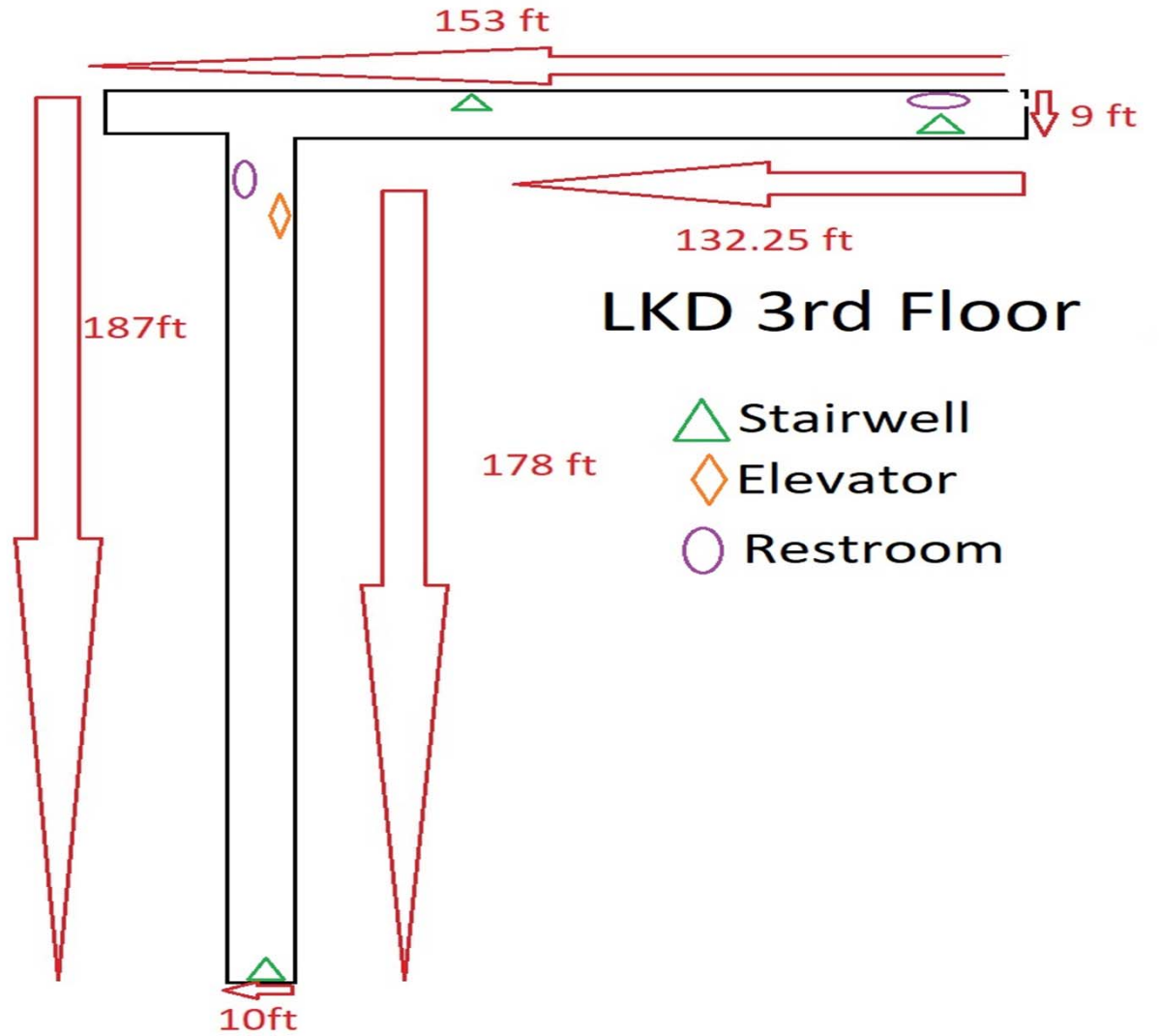Draw size - 16 x 2 x 14 in

Wheel size 6 in
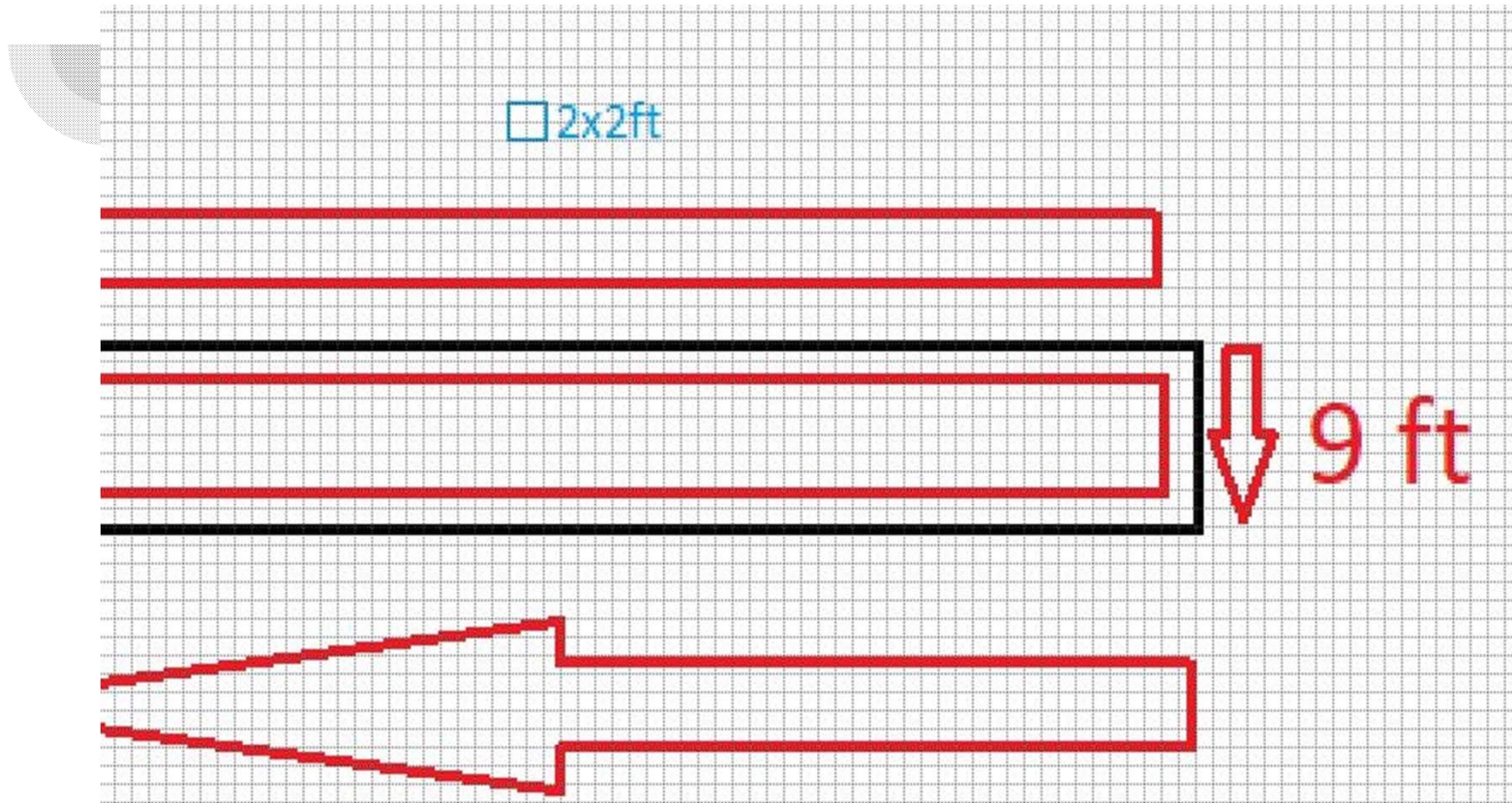
Building of Deliveroid Frame

- The measurements of the frame are almost finalized.
- Unfortunately Mechanical Engineering machine shop is unavailable so looking at workshop in physics department.
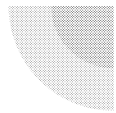- Looking at potential premade parts to buy and assemble.
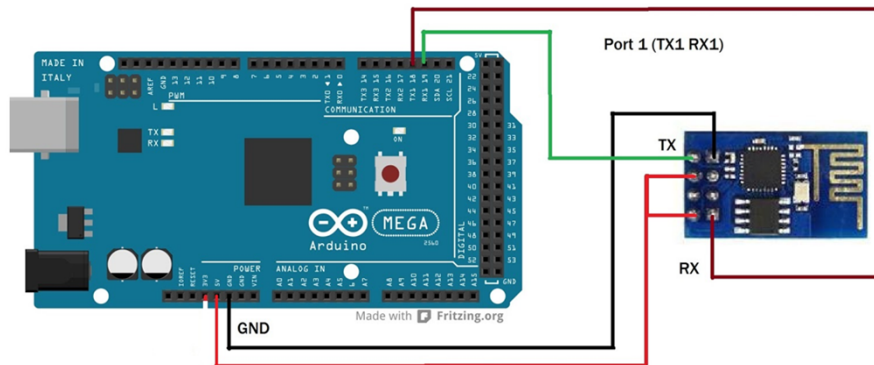
Simulation Area Map

153 ft

9 ft

132.25 ft

LKD 3rd Floor

187ft

178 ft

△ Stairwell

◇ Elevator

◯ Restroom

10ft

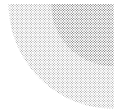# Map Constraining

□ 2x2ft

9 ft

Network Communication

- Blinking LED Demonstration: ESP8266

Activity Summary

Highlights

- Weekly meeting productivity
- Calculated final dimensions of deliveroid frame and body
- Coding has begun. 2D Map code is in progress. Network features code in progress
- Good teamwork and communication

Lowlights

- Not going to have access to the Mechanical lab
- Frame delay continues
- Necessary to purchase frame materials which will delay frame manufacture
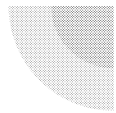
Risk Management

Rank	Risk	Approach
1	Physics workshop unavailable	Rely on current frame/ purchase alternative
2	Serial Communication Unreliable between boards	Use alternative communication methods (I2C, SPI, etc....)
3	Insufficient RFID range	Decrease range between machine/reader and tags

Probability

impact
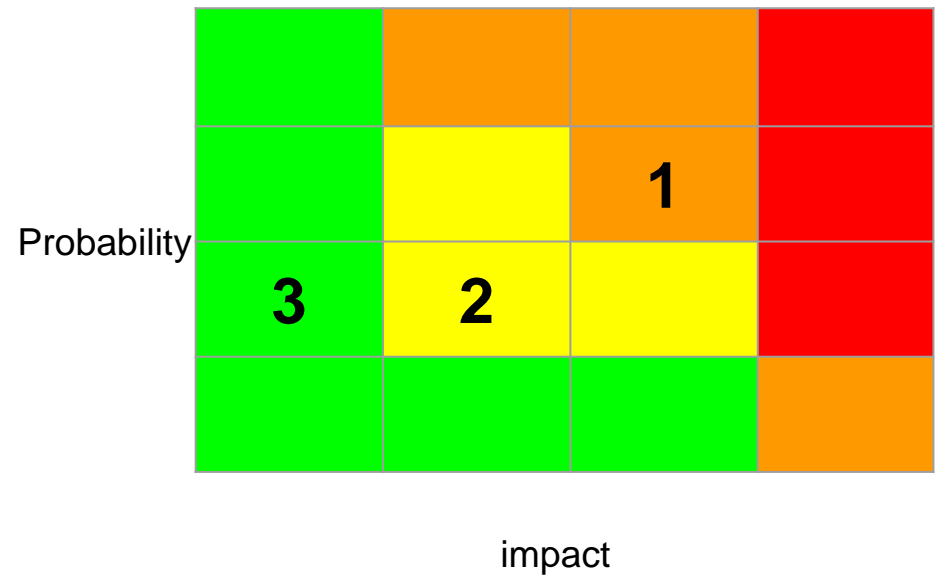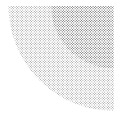
Planned Activity

February	Tasks	Member in Charge
20th - 23rd	Speak with Physics machine lab technician	Jonathan
20th - 28th	Finalize 2D map and features	Conrad
20th - 28th	Implement network features specifications (sending text, using POST and Json)	Shelton
20th - 1st week of March	Build Deliveroid frame	ALL