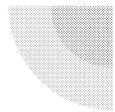# The Deliveroid Project: Progress Report 1

Prepared by:
Shelton Allen
Conrad Blash
Jonathan Goberdhan
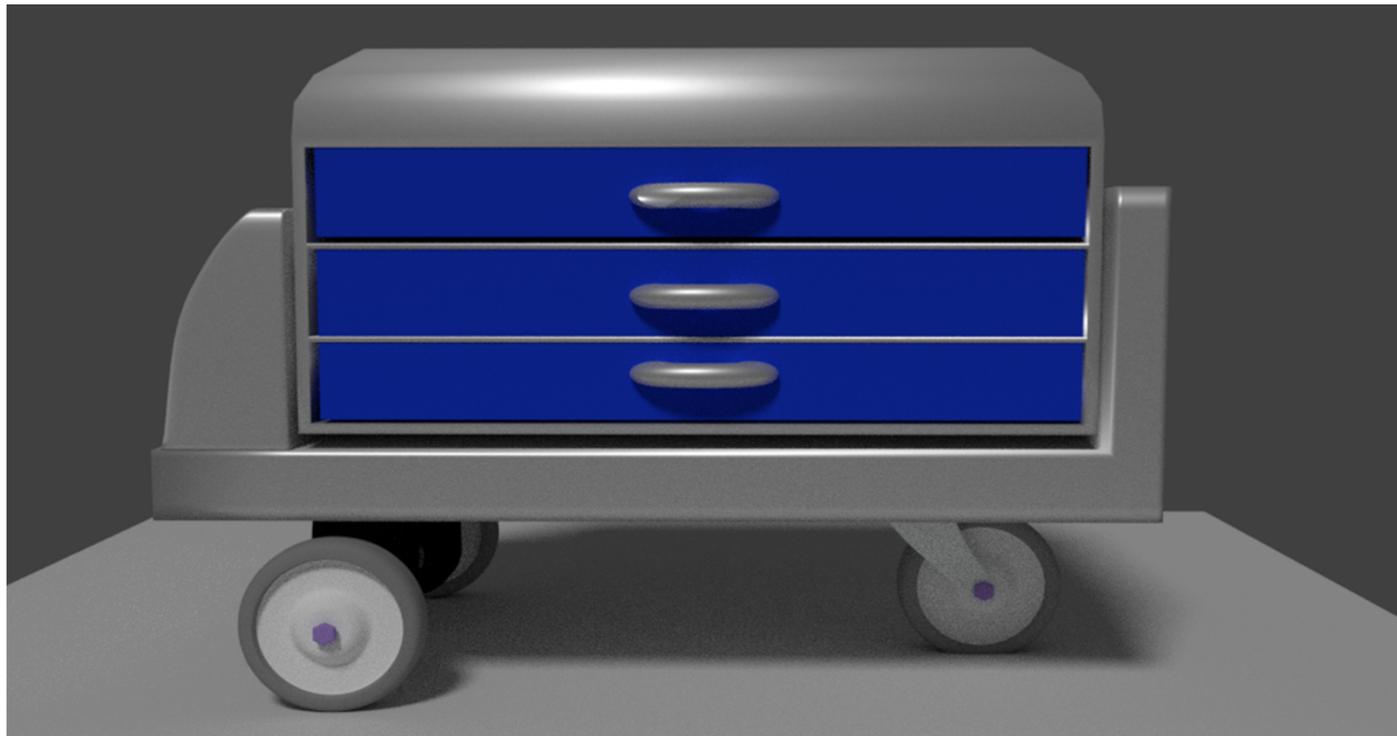
Milestone Summary
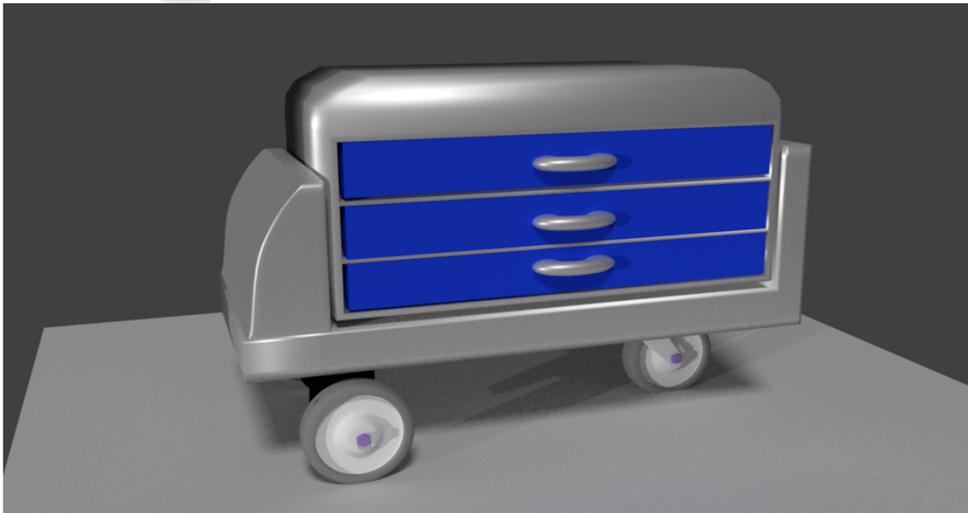
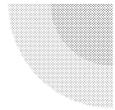| Month	Deliverables	Member in Charge	Update
January	3D Model of frame	Jonathan	Cleaning up Exact Measurements

- Preliminary action steps:
  - URGENT: Speak with Mechanical Engineering lab technician

3D Model of Frame

Additional Viewing Angles

Activity Summary

Highlights

- Clearer idea of what is needed for the project regarding materials
- Key finding: hardware limitation with RFID reader
- Now in possession of a microcontroller and can begin component coding.
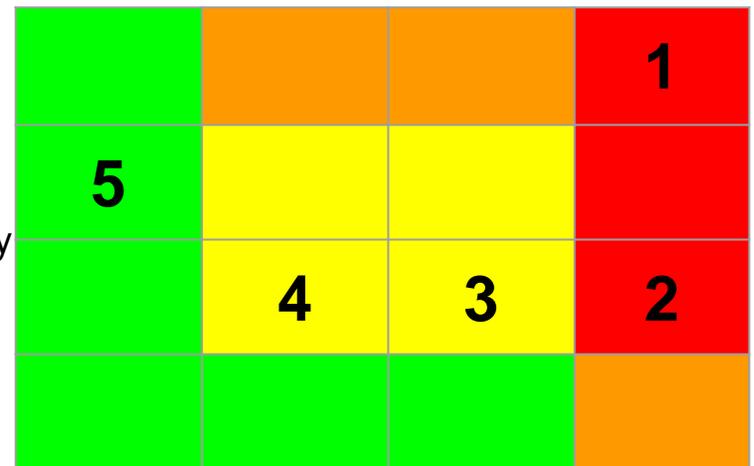
Lowlights

- Poor team communication
- Execution of action steps
- Still need to find RFID reader that meets design requirements
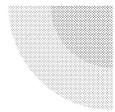
Risk Management

Rank	Risk	Approach
1	non-supporting frame/drawers	Create frame in workshop
2	Motor driver malfunction	Substitute old motor
3	inoperable Arduino board	Order supplementary boards or utilize available extra boards
4	RFID Tag shortage	Shift reliance towards 2D Map and Distance sensor
5	Shortage of I/O on Microcontrollers	Increase number of microcontrollers or use peripheral breadboards

Probability

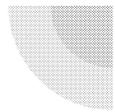|			1
5			
	4	3	2

impact
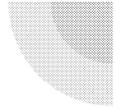
Planned Activity

- To mitigate risk and resolve lowlight issues:
    - Decide on a central medium for team communication
    - Set hard deadlines and task completion dates.
    - Discuss each individual team member's role and what is expected.
    - Hold each other accountable.

Planned Activity

February	Tasks	Member in Charge
4th - 9th	Speak with Mechanical Engineering Lab technician to determine limitations of building frame	ALL
4th - 9th	Measure hall dimensions and begin coding 2D map	Conrad
4th - 12th	CAD Design of frame	Jonathan
11th - 16th	Implement network features using Arduino Uno and ESP8266 WiFi module	Shelton
16th - 28th	Build Deliveroid frame	ALL