

## EE/CprE/SE 491 WEEKLY REPORT 6

Date Span:

April 1st - April 5th

Team:

sddec19 - 17

Project:

Goose Chaperone

Client/Advisor:

Dr. Randall Geiger

Team Members:

Johnson Phan

Weston Berg

Alec Morris

Woodrow Scott

Zhihao Cao

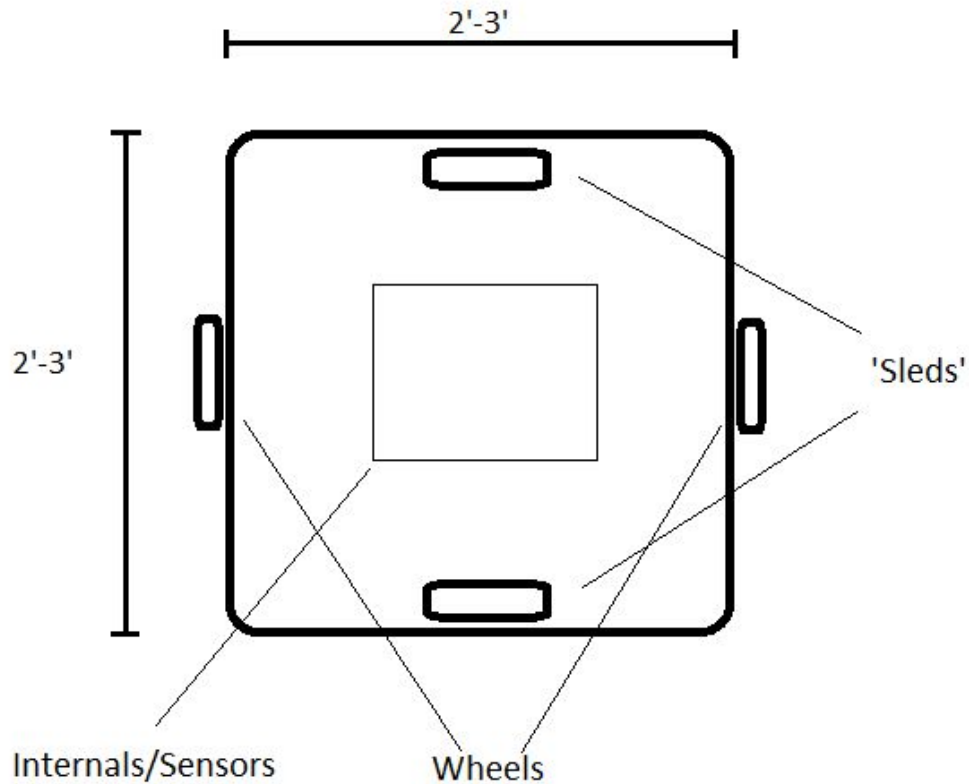
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## Summary

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Group finalized the initial design decisions individually and reviewed them at a meeting that took place on April 4th.

The total robot profile will be around 2-3 square feet for the base and 2-3 feet for the height. The robot will have two wheels for propulsion and two 'sleds' for balance. The 'sleds' will be of a low friction material as to not introduce lots of resistance for the two motors. The following is a rough sketch of the robot design:



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## Accomplishments

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Johnson Phan: Make progress on iteration plan for coding.

Weston Berg: Selected motors and wheels for the robot.

Alec Morris: Continued work on selecting initial components. These materials were confirmed at the group meeting on April 4th.

Woodrow Scott: Selected camera component and progressed on Tensorflow experiments.

Zhihao Cao: Selected distance sensor component for robot.

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### Time Contributions

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Team Member	Hours Contributed	Cumulative Hours Spent
Johnson Phan	3:08	21.08
Weston Berg	3	30
Alec Morris	2	18
Woodrow Scott	4	24
Zhihao Cao	1	21

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### Client Meeting

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We discussed structural alternatives and worked on planning a more formal design for the robot body.

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### Future State

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Johnson Phan: Designing iteration codes. Find materials on wood, plastic, and metal Types. Find videos and descriptions to get a better chassis model.

Weston Berg: Test motor functionality with rest of robot's platform

Alec Morris: When components arrive, I will begin proof of concept testing on the GPS module and help assemble some parts of the robot.

Woodrow Scott: Continue working on developing a base model for image recognition. Will work on getting BeagleBoard ready when it arrives.

Zihao Cao: waiting to get sensor and test the sensor function to make sure it works.