

EE/CPRE/SE 492

Weekly Report 15

Goose Chaperone

SDDEC19 - 17

11/11/2019 - 11/22/2019

Client/Advisor:

Randall Geiger

Team Members:

Weston Berg

Zihao Cao

Alec Morris

Johnson Phan

Woodrow Scott

Past Weeks Summary

PVC model assembled and drilled with screws. DC motor crafted into PVC and attached to the main model. Wires attached and ready to bind with board, motors, batteries, and beaglebone.

Past Weeks Accomplishments

- DC motor bearing and PVC - Johnson/Weston
 - Crafted bearing into PVC and mounted DC motor
 - Crafted PVC for stepper motor binding
 - Assemble PVC in front and back as balance
- PVC Construction - Group
 - Assemble PVC model
 - Drilled and screw PVC joint to be tight
 - Assemble and mounted wires for components



- Manual TF Tagging
 - Tedious tensorflow image tagging
 - Mostly focused on exams
- Researched GPS Dithering - Alec
 - Not something we need to worry about
- Final DC Motor Driver Board - Weston
 - Prepared board for wiring via soldering on headers
 - Wrote software driver to control the motors via the board

Pending Issues

- Beaglebone's onboard memory constraint
- Using OpenCV on Beaglebone via Python

Individual Contributions

Team Member	Hours (Report Duration)	Cumulative Hours
Weston Berg	6	122
Zhihao Cao	6	55
Alec Morris	4	62
Johnson Phan	7	67
Woodrow Scott	5	101

Plans For Upcoming Weeks

- Reorganize - Johnson
 - Draft plans teaming meetings, possible schedules, and coding ideas for next week
- Testing - Zhihao
 - Testing robot function with teammates.
- Code integration and board testing - All
 - Complete start up code
 - LED startup signals for error testing
 - Finish TF tagging and integration
- Create poster and final report - All

Weekly Advisor Meeting Summary

Progress report and future plans.