

## EE/CprE/SE 491 WEEKLY REPORT 8

Date Span:

April 13th - April 19th

Team:

sddec19 - 17

Project:

Goose Chaperone

Client/Advisor:

Dr. Randall Geiger

Team Members:

Johnson Phan

Weston Berg

Alec Morris

Woodrow Scott

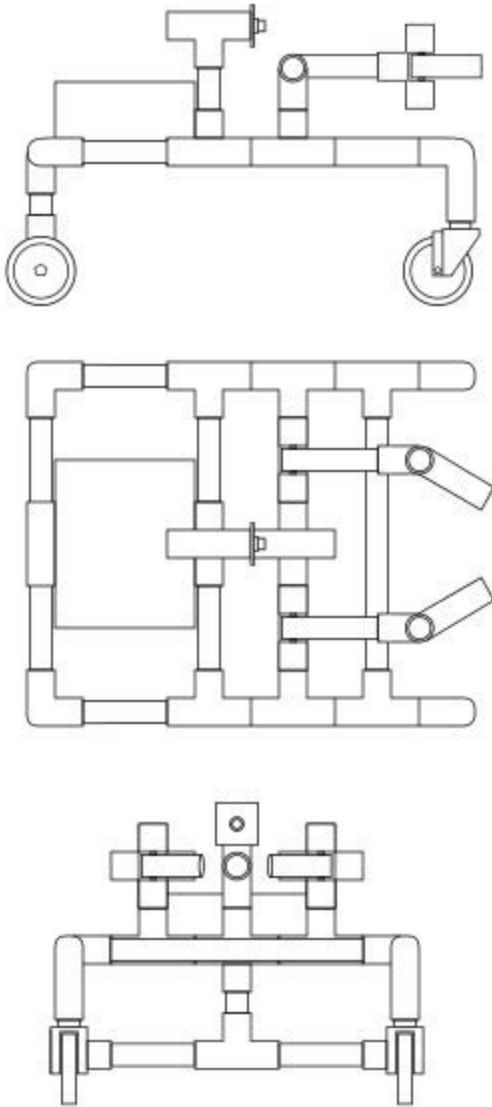
Zhihao Cao

---

## Summary

---

### Shooter Arm Extensive



The main body of this design was based off of a youtube video. The video was a PVC designed model lawn mower. The left rectangle is the container for battery, microcontroller, and other necessary equipments. The middle serves as the head with the camera rotatable. The right has three components. Two serves as “arms” to carry and use devices. As they are rotatable, it can be adjusted to use on the target. As the robot will move itself into position, the middle and last component as a fixed device for sound, sprayer, or expansive balloon.

---

### Accomplishments

---

- Johnson Phan: Created a new design model for Goose Chaperone. Made some components to control scare tactic devices.
- Weston Berg: Continued robot chassis design deliberation.
- Alec Morris: Continued considerations about materials for robot. Did further research into GPS module and how it might interface with the microcontroller.
- Woodrow Scott: Continued developing tests and research for image recognition, and continued search for more price effective camera.
- Zhihao Cao: continue considered about using material of a combination of PVC and aluminum.

---

### Time Contributions

---

Team Member	Hours Contributed	Cumulative Hours Spent
Johnson Phan	2.36	25:44
Weston Berg	3	33
Alec Morris	2	25
Woodrow Scott	3	30
Zhihao Cao	2	25

---

### Client Meeting

---

There was no meeting this week as the client was out of town.

---

---

### Future State

---

- Johnson Phan: Possibility made alternative design for discussion. Resume coding.
- Weston Berg: Continue improving upon robot design

Alec Morris: Hopefully begin ordering components and begin proof-of-concept testing as soon as possible.

Woodrow Scott: Hopefully find a camera  $\leq$  \$20, and search for high-volume low resolution test images for birds.

Zhihao Cao: consider the body and shooter arm construction design and make decide which design should be used in next week.