

(1) The overall project status

Our team has established the overarching requirements from the client that we must follow for our project. We still have a lot of work to do to break these requirements down and find possible solutions for each piece.

(2) The team accomplishments over the reporting period.

1. Decided on project "Squirrel"
2. Discussed thoughts on different approaches to problem
3. Met with client Bob Thompson

Hours Worked for the Week

Total Cumulative Hours

Team Member	<u>Hours worked</u> Weeks of 1/20/20 - 1/31/20
Abraham Contreras	4
Richard Cushing	6
Devon Driscoll	4
Dan Gilbert	4
Cole Patton	4
Isaac Tegeler	6
Total Cumulative Hours	28

(3) Detailed report on pending issues

1. Talking about holding devices such as wood screws/stakes/zip ties/etc.
2. Gimbal issues for turning towards target
3. Finding different launching mechanisms possibilities
4. Need for wifi on machine vision side
5. Initial ideas for motion detection, connection pipelines,
6. Circuit power (wall outlet vs battery)
7. WiFi/Bluetooth connected tracker of sightings
8. Ping Pong ball on fishing string for retrieval and reloading
9. Researching ping pong ball launching mechanics like springs and compressed air
10. Hardware possibilities such as raspberry pi / decide necessary RAM

(4) Detailed plans for the next reporting period

1. Visiting client location to take pictures and measurements
2. Discuss initial design thoughts in more thorough detail
3. Research setting up a camera with a raspberry pi
4. Begin looking for supplies to handle
5. Meet with faculty advisor
6. Investigate our main requirements and begin to break them down into workable pieces.