

# Improved Salmon and Trout Egg Counter Weekly Progress Report

Report date: 3/13/2022

- **Last Week**

- Team Review
  - Went to Jensorter separately, working on the hardware currently and building the first prototype
- Sydney
  - Made mount for the water hose and egg ejection system
  - Went to Pats to laser cut the hopper and the disks, Pat will be working on that these coming weeks
  - Worked on sensor array sensitivity with record player
  - Met with curt at jensorter, drilled holes for the motor and worked on a water plan
- Sean
  - Sped up Camera Image Taking speed for ~25RPM
  - Met Curt at jensorter to drill holes/ work on water plan
- Agustin
  - Met with Curtis at Jensorter
  - Built first prototype of power supply
    - Successfully powered on motor using Ryobi drill battery
    - Excludes power on to Raspberry Pi
- Trueman
  - Met with Curt at Jensorter
  - Built the shoot and attached the adjustable backboard
  - Learned how to use more of the workshop's power tools

- **Next week**

- Team Plan
  - Team CATME Reviews
  - Get Disk and Hopper laser cut
- Sydney
  - Will be gone during finals week and first half of spring break
  - Working on the sensor array second half of spring break, getting it mounted in the box
  - Email Pat for update
- Sean
  - Speed up camera & tweak for accuracy
  - Make Camera only pick out round objects
  - See how far I can compress images
- Agustin
  - Power on Raspberry
  - Support physical build of prototype

- Trueman
  - Attach shoot, possibly attach hose connectors
  - Finish User Manual draft
- **Blocked**
  - Team Blocks
    -
  - Sydney
    - Laser cutter isn't working, spent a lot of time trying to debug it with Pat. Hopefully it will get done.
  - Sean
    - Camera needs to go just a bit faster, need to see how I can offload some processing. It can count at 30ms, but it can't also save
  - Agustin
    - -
  - Trueman
    - -