Improved Salmon and Trout Egg Counter Weekly Progress Report

Report date: 3/6/2022

- **Last Week**
  - Team Review
    - Met (without Sydney) at Jensorter to assemble parts that were made
  - Sydney
    - Received and tested the IR sensors for the trigger with different materials
    - Talked to Josh and got stl file for the previous armature
  - Sean
    - Put existing test code onto Rasp pi
    - Did timing tests onto rasp pi
    - Looking into original contour command to determine eggs
  - Agustin
    - Met in person with Curt at the Jensorter warehouse to start physical build on prototypes
    - Designed the Power Rail using 18V Ryobi Battery
  - Trueman
    - Met at Jensorter to construct prototype
    - Created User Manual template. Not finished with the current version.
- **Next week**
  - Team Plan
    - Meet to continue prototype construction
  - Sydney
    - Test IR more, test phototransistor and LED pair
    - Finish the physical build at jensorter
  - Sean
    - Order extension cable for camera
    - Run simple detection tests with camera
  - Agustin
    - Finish building the prototypes
    - Implement Power Switch to design
    - Build physical power design using the 18 V Ryobi battery
  - Trueman
    - Finish what I can on the User Manual
    - Investigate switch types starting with 3 state switches, then toggle buttons
- **Blocked**
  - Team Blocks
    - How to manufacture the disk? Did it need to be cut by Pat or can we cut it?

- Sydney
  - Have to figure out what the state of the armature is in, do we mount the camera on it? Do we just put the sensors?
- Sean
  - Getting rasp pi camera to shoot at a high enough speed
  - (Need to thread a video stream and pull frames versus current setup which saves to sd card)
- Agustin
  - Will the Buck converter that Curtis bought work?
- Trueman
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