# **Improved Salmon and Trout Egg Counter Weekly Progress Report**

Report date: 1/20/2022

* **Last Week** 
  + Team Review
    - Virtual meeting with Curtis
    - Virtual team meeting
  + Sydney
    - Met with Curtis at the shop
    - Created light detection circuit and code
    - Determined light detection circuitry sensitivity
    - Researched trigger ADC for egg detection at correct time during rotation
    - Worked on a 3D model from a model provided by curt. Worked with Curt to figure out dimensions of plastic we need to cut out.
    - Worked with Curt to determine that we are going to put the egg counter on a cart with a hole in the top for eggs to fall through.
    - Created “helpful links” google doc
  + Sean
    - Meet with Curtis @ Shop
    - Altered Code to separate plastic beads from image & deal with glare
    - Fiddled with light detection circuit
  + Agustin
    - Meet with Curtis in person at his Shop
      * Worked with Josh on a counting and triggering circuit
  + Trueman
    - Created BOM
    - Reviewed how I2C works
* **Next week**
  + Team Plan
    - Meeting with Curt in person on Thursday again.
  + Sydney
    - Figure out ADC conversion? Is it needed for trigger? How fast does it need to be?
    - Finish 3D model of the chassis and send to Curt by Tuesday.
  + Sean
    - Actually get pi up and running with python and opencv installed for cereal
    - Get Images from picam to USB?
  + Agustin
    - Design Trigger circuit
  + Trueman
    - Start work on the User manual. (research, format, and outline)
* **Blocked**
  + Team Blocks
    - Need a prototype chassis for testing purposes - hopefully that's what Thursday's meeting will accomplish.
  + Sydney
    - Need to understand ADC conversion better. Will email Andrew.
  + Sean
    - Main PC is down atm, need to fix it b4 pi
  + Agustin
    - Final Lab due for ECE 526
  + Trueman
    - Missed the in-person meeting so need a quick recap and add any new confirmed components to BOM