Recycle Sorter Tasks

**Tasks accomplished:**

We have managed to integrate Raspberry Pi with Arduino.

Servos were controlled by Arduino, getting data from Raspberry PI & Camera integration

Software:

* 2 XML files - Both need many more positives
  + Bottles
  + Aluminum cans
* Pi cam was able to detect Bottles and Aluminum cans

Mechanical:

* CAD - SolidWorks
* Incorporated for a medium and circular sized trash can

Electrical

* Connected Arduino and Raspberry Pi with servos

**Tasks to be accomplished:**

Mechanical: February 26th 2017

* Incorporate new design for school trashcans
  + Based off school trashcans
  + Some sort of conveyor Belt
* CAD - SolidWorks
* Gathering and Fabricating Material
  + Plastic and Aluminum
    - Brunsfield, laser cutting and 3D printing

Software:

* 12 XML files - February 26th 2017
  + New way of making positive
* Website for IOT data - March 5th 2016

Electrical:

* Sensors Data - February 12th 2017
* LCD screen - February 26th 2017
* Power - February 26th 2017
* Moving Mechanism - March 12th 2017
* Wifi capabilities - March 5th

**Software and Parts used:**

* We need something more powerful than Raspberry Pi - Possibly a RP3.
* LCD Screen for Raspberry Pi
* Stepper Motors or Servos
* SolidWorks
* OpenCV
* Linux (Ubuntu)
* Plastic and Aluminum
* Sensors

Other parts will be needed as mechanical team configures a design