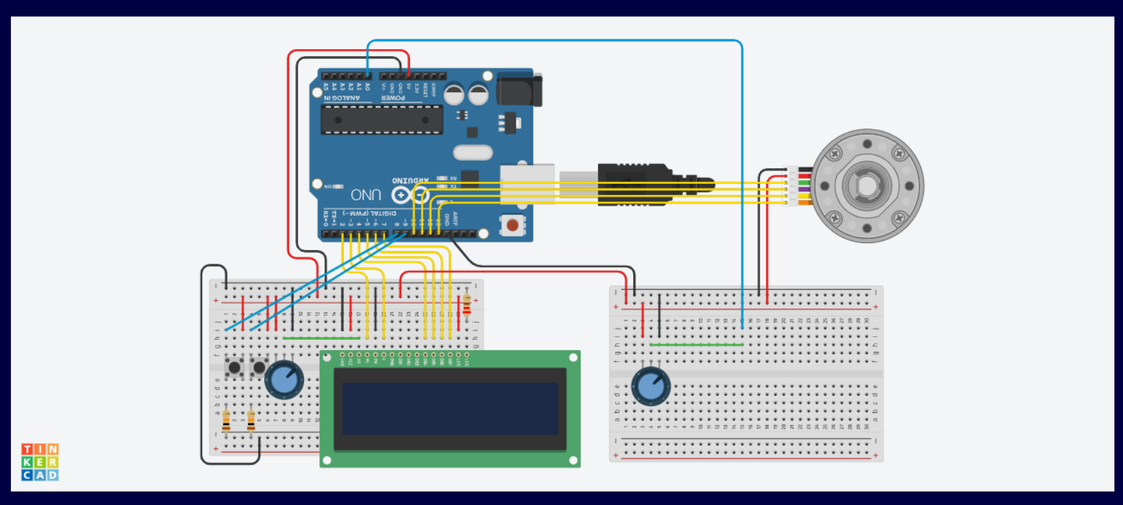
# Delicious Payload

## How it works

Our system operates on a pulley with a timing bet which has stepper motors on either side. We 3D printed pulleys for the timing belt with holes for the stepper motors. We then attached the motors with pulleys onto  a 2x4. On the hardware side, the Arduino takes in user input and then tells the stepper motors how long to turn on for and then it gives appropriate time for the magnet to pick up the intended item. Once picked up, it takes the item to the correct location and releases it.



## Materials Used

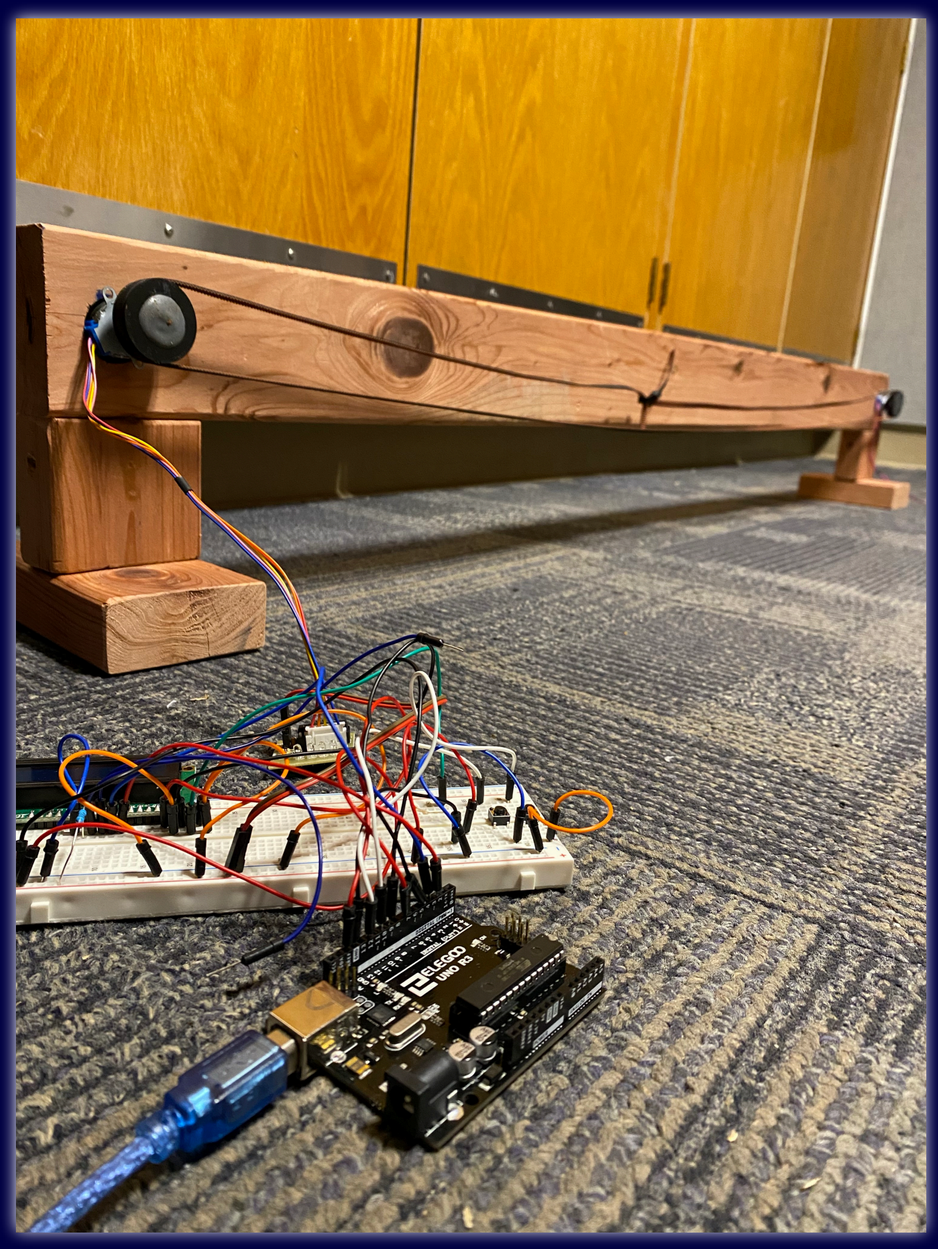
- Arduino Uno
- Lumber(2x4)
- Stepper Motors
- 2GT Timing Belt
- 3D printed pulleys for stepper motor
- Motor Shield (optional)

## Future Improvements

- Use IR remote as input in order to make our machine more useful
- Create two free standing pulleys, rather than having them connected which would result in a much more versatile product

## Abstract

Delicious Payload’s objective is to create a device that delivers a selected snack from a central location to a different location. The electronics are housed near the main location where it takes in user input in order to deliver the goods.



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