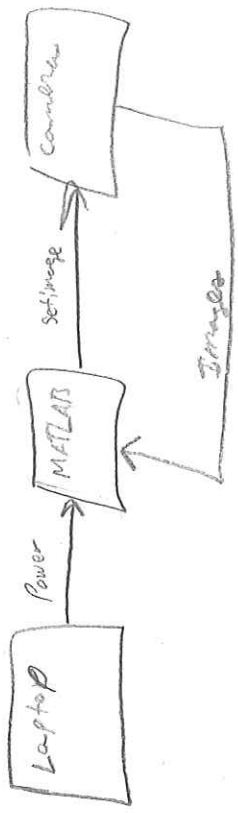


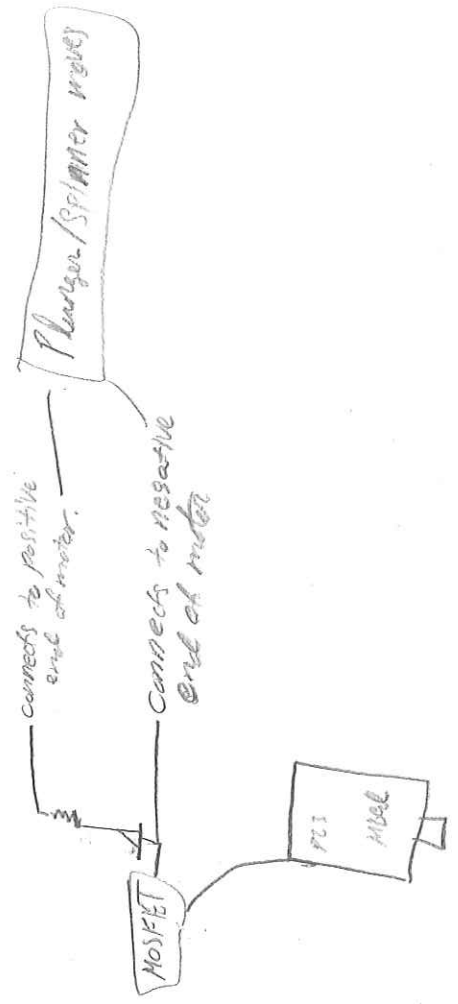
Riley
Hogan

①



②

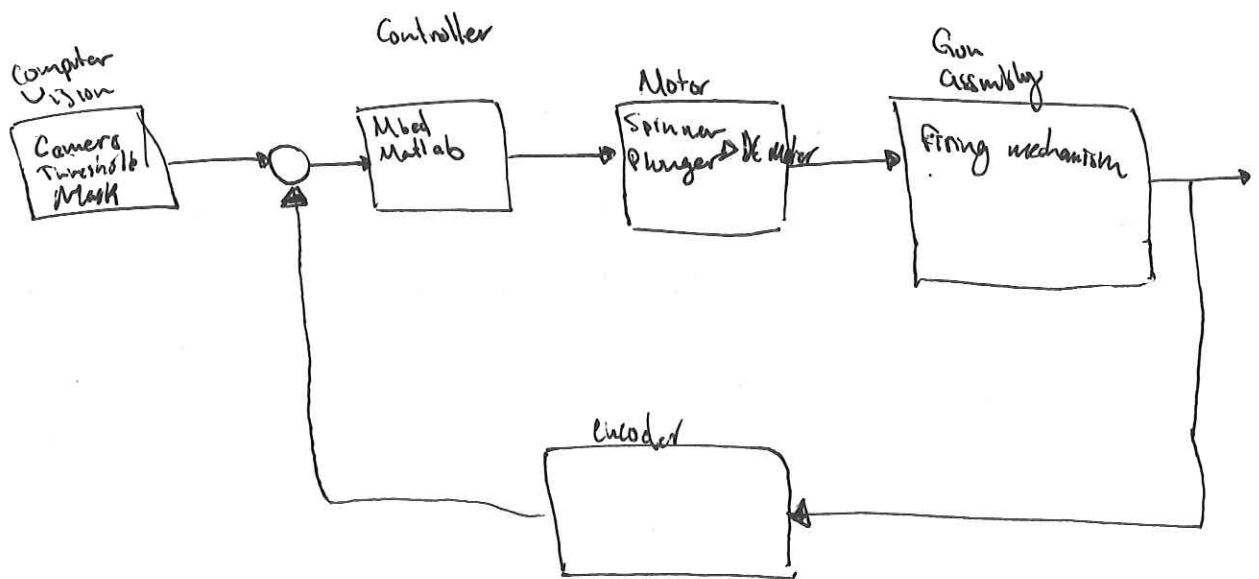
From imbed, a signal of ON is sent to the MOSFET. The signal is then sent from the MOSFET through a diode and is then sent through the connector that connect the breadboard to the Motors. This is repeated for both spinning and plunger since both are equal to one and means they are on.



①

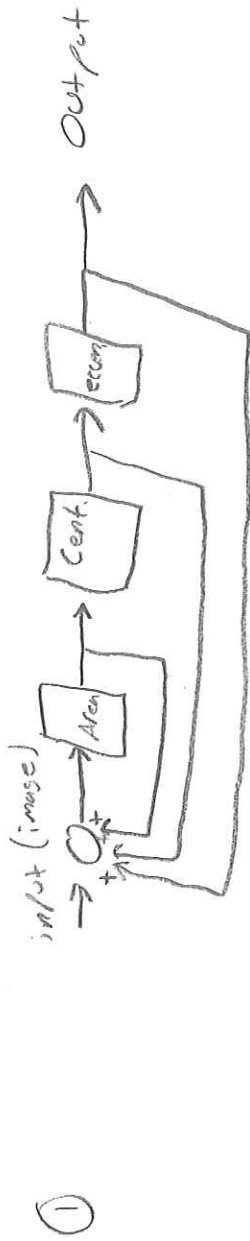


② When you set the spinner & the plunger to 1 it tells the arduino to "turn them on" by sending the voltage to those components



Nate Herson

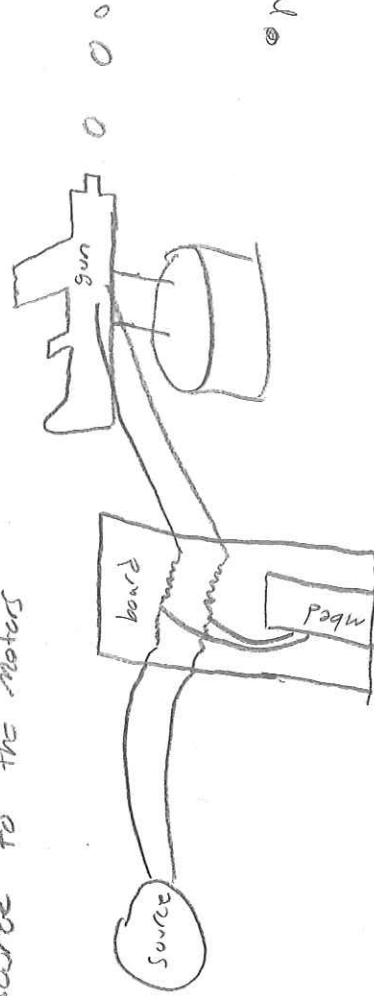
Nate Herson



the code looks at different objects in the image and compares them to the desired area, centroid, eccentricity to get a target or no target

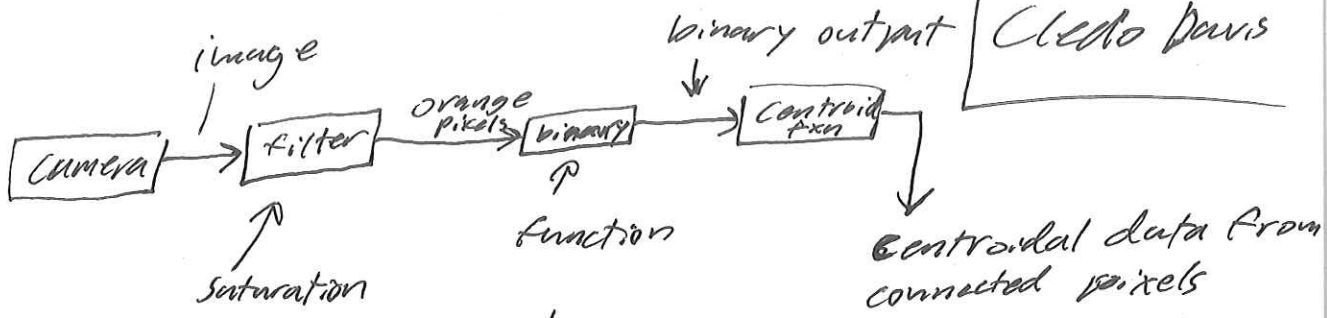
②

when spinner and plunger equal, the motors controlling those will be set to on, spinning the spinner and plunger on the gun. Mbed allows the signal to run from the source to the motors

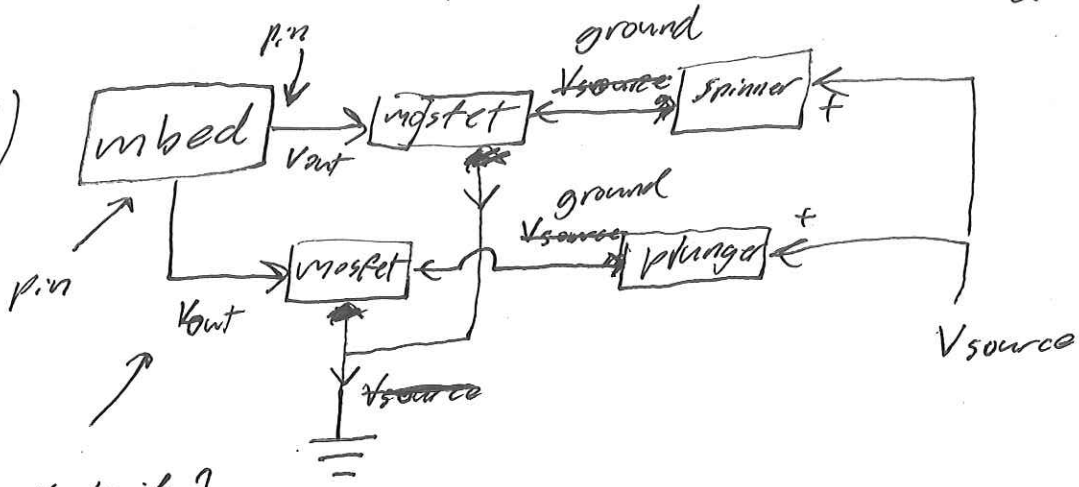


© Maybe talk about mascot?

1)



2)

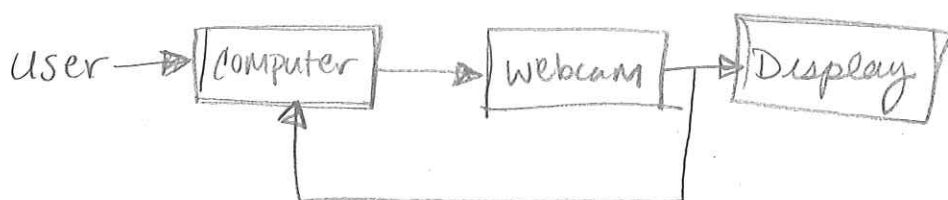


$v = v_{out}$ if 1
 $v = 0$ if 0

Quiz:

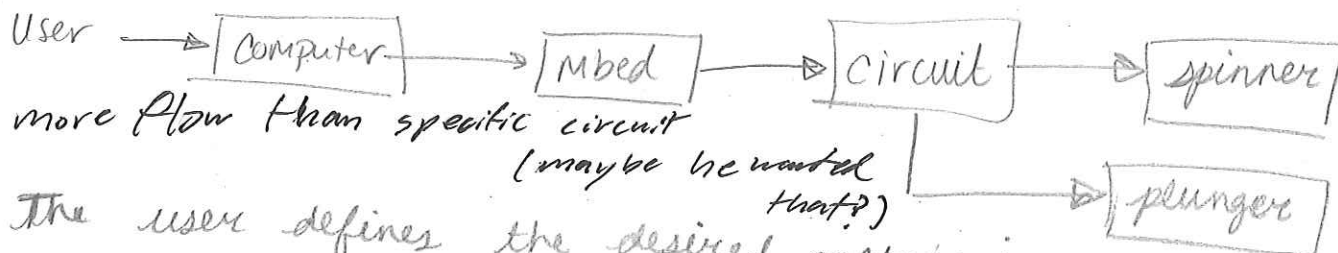
Ryan Schwind

①



The user inputs code into MATLAB, defining what the camera is looking for, (i.e. color, size, shape, etc,) then the webcam sends the image data to the display and back to the computer to calculate the desired images.

②



The user defines the desired voltage in code in "C" on the computer. For this example the voltage is 3.3V. This sends the voltage to the mbed, which controls the voltage and in turn sends it to the spinner and the plunger w/ no feedback.

③

George Gilliam

spin = 1
p1y2 = 1



Dig out 1 = 1
Dig out 2 = 1 } Pins on r/bc 1



Turn on master gate for both

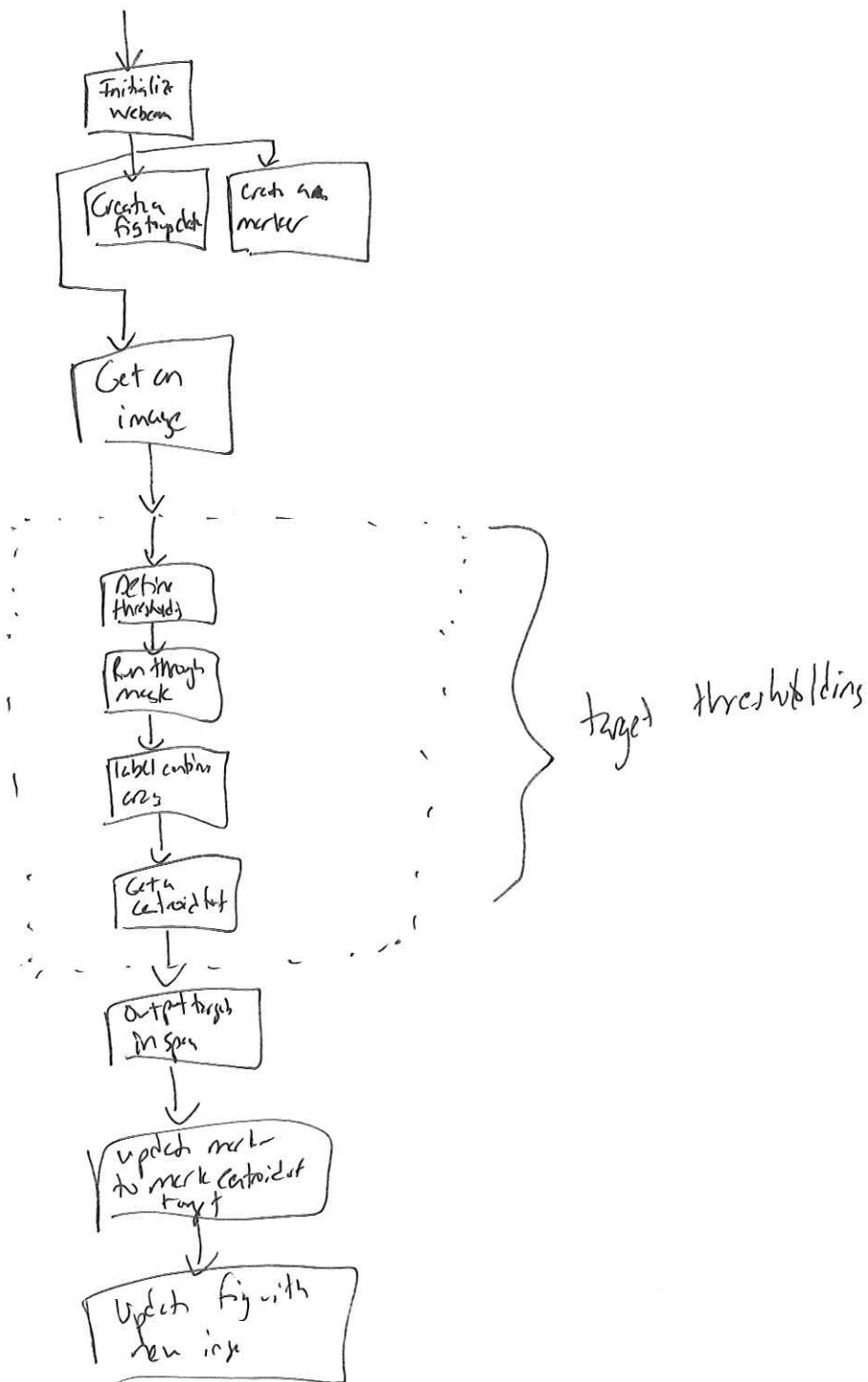


Voltage + gun is now 9V on gun pins

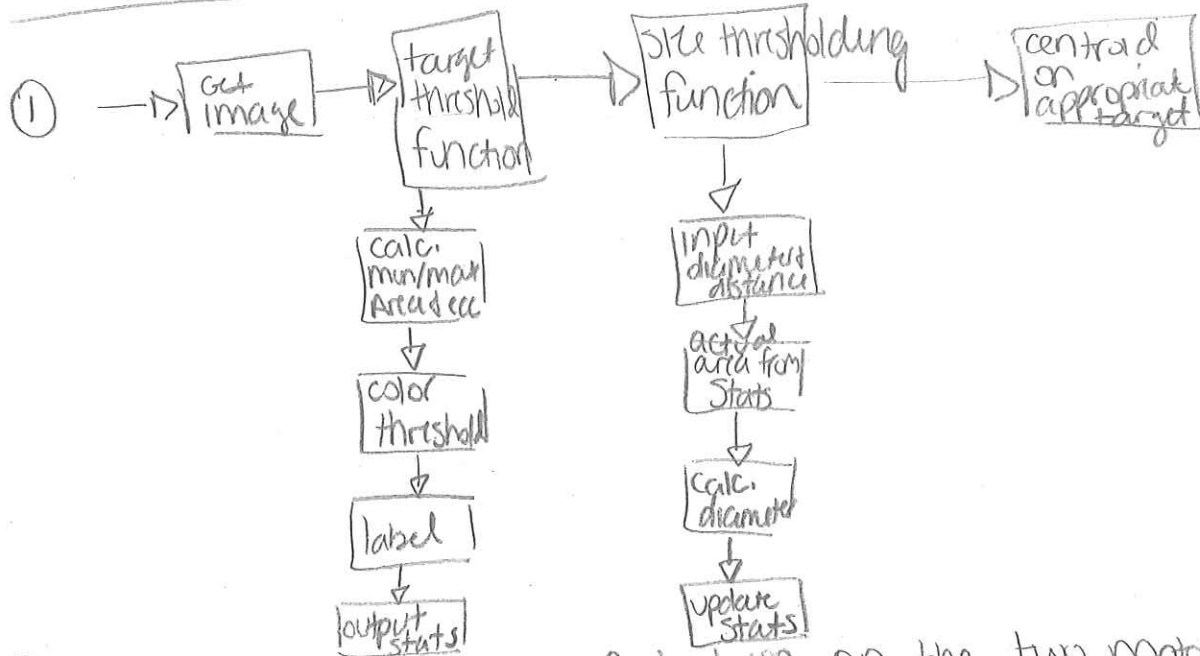


9V sent to each motor.

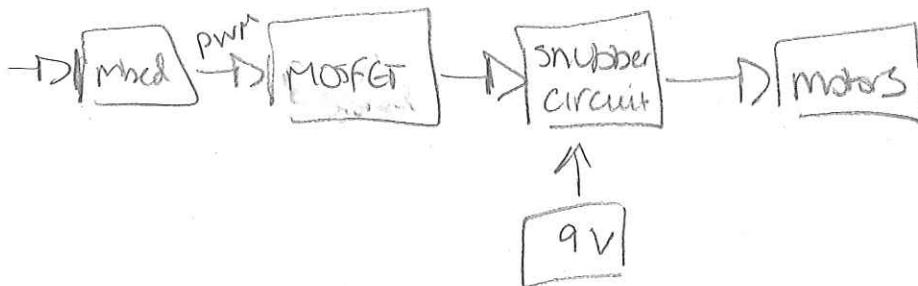
Computer vision



Sofia Di Antonio

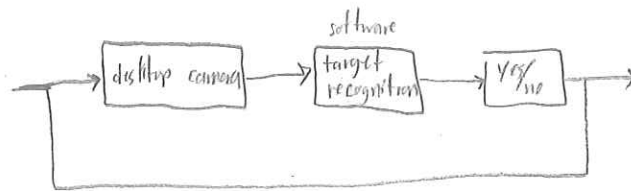


② The mbed sends a ^{pwm} signal to turn on the two motors in the gun. the mosfet gate closes acting as a switch, allowing the ~~so~~ drain to lead into the snubber circuit which is then connected to the motors which are also connected to their respective mbed pins.

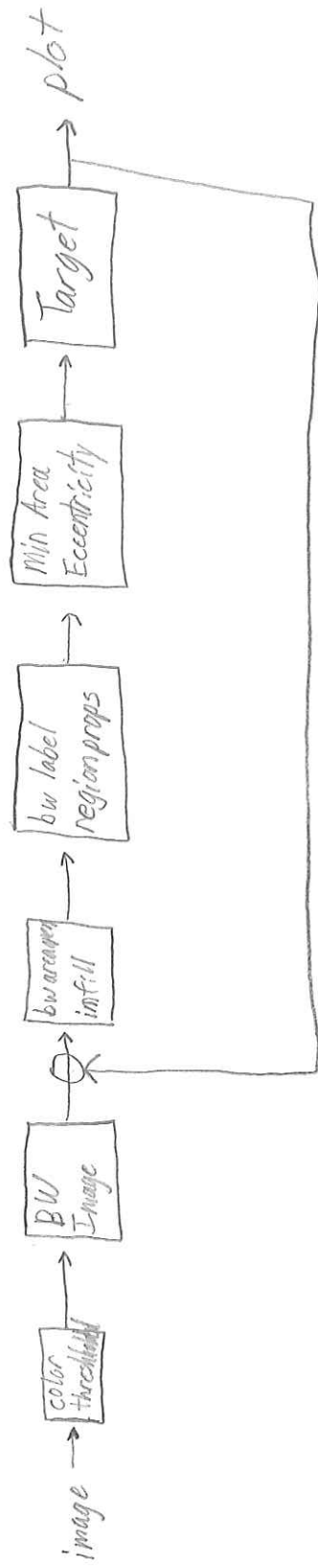


Graham Brothers

①



- ② imbed sends volt from 3.3V source out to plunger + dual spinner motors.
bullets are pushed by plunger into spinners + shot out.



↑ Why does this do?

2. If both are 1 the loading and firing mechanism for the gun will run

(or so get a diagram)

