

# December 9, 2022

## building

### **focus:**

Attached limit switches

### **summary:**

We attached the limit switches using a drill, some screws, and a hot glue gun.

### **challenges:**

We accidentally drilled through surgical tubing. whoops! it will be just as good though. also we had trouble figuring out how to configure them screw wise.

### **next steps:**

hand it over to coding

### **focus:**

design

### **summary:**

i designed a cool thing for a robot design

### **challenges:**

### **next steps:**

present to team

## coding

### **focus:**

webcam opencv

### **summary:**

I fixed the error in the OpenCVBase code; however, it is having trouble pushing to robot controller. Later successfully configured the webcam

### **challenges:**

Webcam would not connect to the control hub

### **next steps:**

Figure out the rest of the configuration

### **focus:**

fixing control hub issues

### **summary:**

Noticed many errors on control hub related to WiFi, robot battery minimum limit, etc. Ended up successfully configuring 20409

**challenges:**

Many errors

**next steps:**

check limit switch configuration, test autonomous

**focus:**

Controller

**summary:**

labled

**challenges:**

we could not run code so we had to do controller stuff

**next steps:**

we are done with controller need to start running code with arm

**focus:**

Color sensor code

**summary:**

We wrote code for the color sensor (spent a lot of time figuring out the logic) and integrated it into high autons.

**challenges:**

Logic took a long time (still needs to be looked over) and tested. Building team has not attached a color sensor yet.

**next steps:**

test color sensor code once it's attached

**focus:**

Signal sleeves

**summary:**

Sized signal sleeves to properly fit on the cones, inverted colors on screwdriver signal sleeve in order to optimize color sensor coverage

**challenges:**

Printer wasn't working

**next steps:**

Test color sensor and webcam

***focus:***

Engineering portfolio

***summary:***

We dedicated the whole session to creating content for the engineering portfolios.

***challenges:***

We're focusing focusing on content first and then working on design. Also, we didn't vlog...

***next steps:***

Continue working on the engineering portfolio. Along the way, look for trends or themes in the portfolio to pull out as a main message. Tomorrow someone has to vlog a lot!