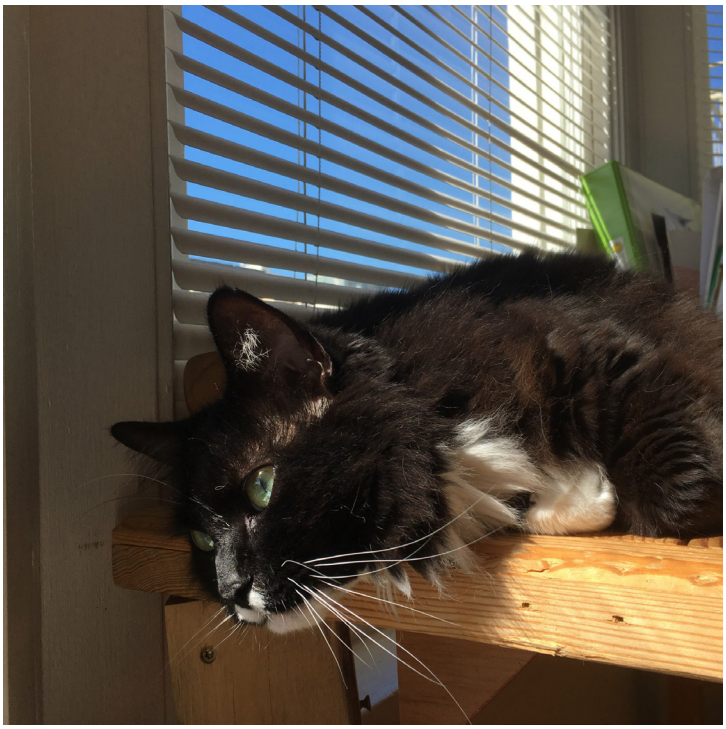
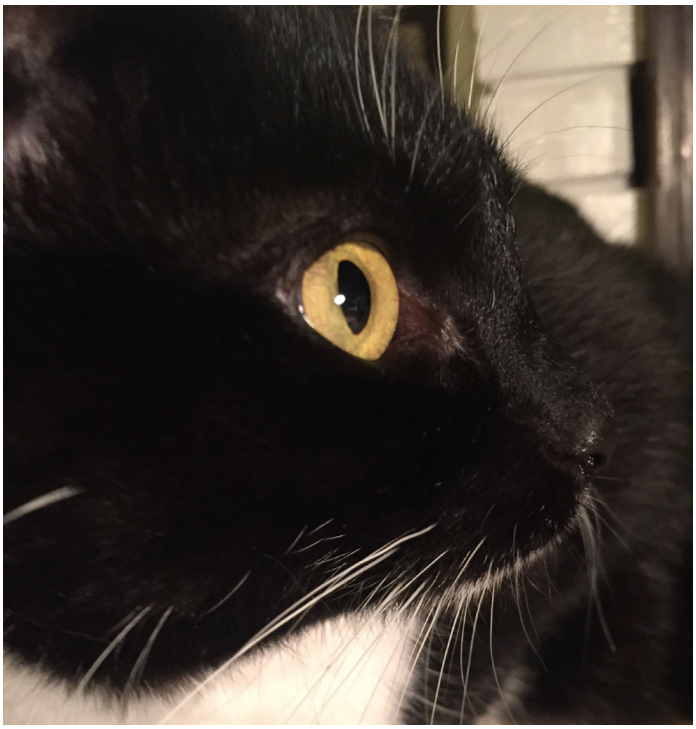
Final Project Proposal
Artisanal Cat Toy
Benner Boswell





For my final project I would like to design and build a small autonomous vehicle that uses distance sensors and a servo motor to steer around an apartment or home while running away from cats, causing them to chase it, have fun and get exercise.

I imagine the vehicle would also have lights, a space for cat nip and some sort of protective casing that would encourage cats to get involved. I would like the program to consistently navigate in space using distance sensor data and have a randomly selected steering code that keeps it interesting for the cat. The code could also turn on randomly to get the cats really excited. I think the code will be a set of functions in if then statements that interact based on sensor data.

It will be crucial to find components that are durable and small for this project so the overall body of the toy can remain reasonable for a cat toy. I also plan to solder components to increase durability. I hope that the complexity of the code mixed with the challenge of durability for components necessary for the project to succeed will help me solidify both the coding and circuitry skills we have learned in class so far. Overall, I would love to build a robot that helps my cats do things. Like anything at all that is not sleeping all day.