

## Weekly Report

### 1. My *Goals* from last week

- Test *Blinkstick* outside to see if lights are bright enough.
- Develop patterns for the *Blinkstick* that associate with each rover state.
- Need to finalize 3D prints for *Blinkstick* support braces on the rover.
- Need data set of images from the rover for machine learning.

### 2. My *Accomplishments* this week

- Tested *Blinkstick* outside.
  - i. Did not seem bright enough with certain colors
- Made some LED states in python to test.
- Tested audio outside
  - i. .wav file audio needs to be increased in order to hear better
- Reimplemented 3D model for *Blinkstick*.
  - i. 45 degree angled bars that are square made it difficult to attach LEDs.
  - ii. Decided to use a ring design instead.
- Went canoeing for almost 5 miles with the lab.
- Helped Dr.Becker move some stuff to his new home in Moody Towers

### 3. My *Goals* for next week

- Still need data set of images from the rover for machine learning.
- Make more LED states in python.
- Transfer LED states to *mobility.cpp*.
- Need to order the rest of the parts to assemble the other rovers.
- Print new ring model for *blinkstick*.

### 4. What I need Dr. Becker to do:

- Have a follow up meeting at the end of the week to discuss progress.



Image was taken from about 7.5 meters (~25 feet) away.