Hive Monitoring: Week 4

By: Shrinidhi, Tate, Sarah, and Ben

Debugging

- Unreadable characters in log files
- Learned more about Linux commands

file, class, begin frame, end frame

/research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-10 17:27:37.449696.h264, , 31, 27036 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 11:22:09.977857.h264, , 31, 2095 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 11:25:43.578703.h264, , 31, 30007 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 11:43:39.732672.h264, , 31, 30007 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 12:03:40.244583.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 12:23:40.748895.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 12:43:41.291047.h264, , 31, 30007 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 12:45:06.429300.h264, , 31, 30007 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 12:45:06.429300.h264, , 31, 30007 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 13:25:07.486064.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 13:25:07.486064.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 13:45:08.029694.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 13:45:08.029694.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 13:45:08.029694.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 14:47:53.02449.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 14:47:54.585695.h264, , 31, 30008 /research/projects/grail/rmartin/bee-videos/garage/2023-06-19_2023-06-22/2023-05-11 14:47:54.585695.h264, , 31, 30008 /research/projects/grail/rmartin/bee-

20230619_123456	
20230619_123526	
20230619 123556	
20230619 123626	
<u>^@^@^@^@^@^@^@^@^@^@^@^@^@^@2</u>	0230619_124347
20230619_124417	
20230619_124447	
20230619_124517	
20230619 124547	
20230619 124617	
20230619 124647	
20230619 124717	
20230619 124747	
20230619 124818	
20230619_124848	
20230619 124918	
20230619 124948	
20230619 125018	
20230619 125048	
20230619_125118	
20230619_125148	
<u>^@^@^@^@^@^@^@^@^@^@^@^@^@^@2</u>	0230619_125458
20230619_125528	
20230619_125558	
20230619_125628	
20230619_125659	

readarray -t all_state_switches < <(grep --no-filename . <pre>\$target/*.txt |sed "s/[^0-9_]//g" | sort -n

Control Data Results

Accuracy: 0.7570000269490932

- Expected 50% accuracy
- Determined that there could be an issue with the distribution of the data



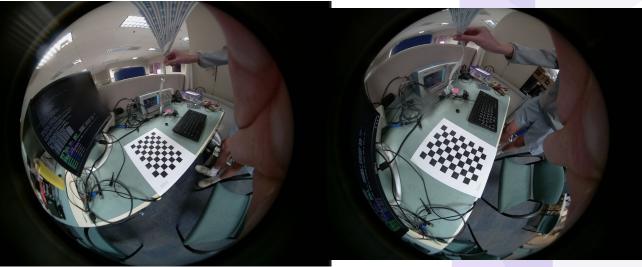
Reviewed Data

 Created a spreadsheet to manually verify states



Size	Month	Day	Time	Time Difference			State	logPos	logNo	logNeg
306M	Jun	21	16:12	0:20	2023-06-21	15:52:40.257169.h264'	off -> on (15 pin on)	20230621_155242		
296M	Jun	21	16:32	0:20	2023-06-21	16:12:40.758338.h264'	on (15 pin on)			
297M	Jun	21	16:52	0:20	2023-06-21	16:32:41.258248.h264'	on (15 pin on) -> on (16 pin on)			
297M	Jun	21	17:12	0:20	2023-06-21	16:52:41.757825.h264'	on (16 pin on)		20230621_165242	
300M	Jun	21	17:32	0:20	2023-06-21	17:12:42.295505.h264'	on (16 pin on)			
303M	Jun	21	17:52	0:20	2023-06-21	17:32:42.832464.h264'	on (16 pin on)			
303M	Jun	21	18:12	0:20	2023-06-21	17:52:43.331959.h264'	on (16 pin on) -> off			20230621_175242
299M	Jun	21	18:32	0:20	2023-06-21	18:12:43.871589.h264'	off			
300M	Jun	21	18:52	0:20	2023-06-21	18:32:44.409921.h264'	off -> on (15 pin on)			
300M	Jun	21	19:12	0:20	2023-06-21	18:52:44.945908.h264'	on (15 pin on)	20230621_185242		
301M	Jun	21	19:32	0:20	2023-06-21	19:12:45.483605.h264'	on (15 pin on)			
297M	Jun	21	19:52	0:20	2023-06-21	19:32:46.022788.h264'	on (15 pin on) -> on (16 pin on)			
296M	Jun	21	20:12	0:20	2023-06-21	19:52:46.562006.h264'	on (16 pin on)		20230621_195242	
296M	Jun	21	20:32	0:20	2023-06-21	20:12:47.020961.h264'	on (16 pin on)			
295M	Jun	21	20:52	0:20	2023-06-21	20:32:47.559116.h264'	on (16 pin on) -> off			
294M	Jun	21	21:12	0:20	2023-06-21	20:52:48.016792.h264'	off			20230621_205243









Goals for Next Week

- Test the software
- Visit the hive and collect more data
- Learn more about AC circuits

