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Team D1

What did you personally accomplish this week on the project?

- Demo setup:
  - Integrated parts of the object detection and thermal camera module and picked out parts of the code to be shown for the demo
  - Noticed that the ultrasonic sensor does not work well for people, so the plan is to overlap its information with the thermal camera, and if needed consider only (an average/median) of the 5 consecutive distance values returned by the sensor.
- Developed a new plan for communication between Raspi and the motors:
  - The original plan was going to provide a specific direction. However, since the range of the thermal sensor is quite narrow, it seems like having the robot turn around slowly, and just stopping as soon as a heat signature is found would work better.
- Wrote code for configuring the load sensor to work with the pi

Schedule

No major changes. Unfortunately, I cannot calibrate (and therefore test) the load sensor module until it is hooked to the top of the robot, so testing this may not happen as early as planned. In the meantime, I would be working on making the ultrasonic sensor more reliable for human detection. However, there is quite a bit of slack left in my schedule, so we should still be fine for the final.

What deliverables do you hope to complete in the next week?

- Finish up making ultrasonic work for human detection
- Calibration and testing of the load sensor