TrailBot Weekly Project Report #3 9 October 2018

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**Progress**

* Obtained replacement battery and accessories.
* Identified basic commands for motor and steering servo.
* Fabricated replacement shaft for differential to rear shaft.
* Identified and implemented programming for reversing.
* Conducted first road test with preprogrammed commands.
* Began developing basic obstacle avoidance interrupts.
* Assembled basic directional IR sensor.
* Created basic directional IR code.

**Plans**

* Design lower portion of body (to house electronics).
* Construct lower portion of body.
* Assembly lower body and electronics
* Integrate obstacle collision avoidance with vehicle control code.
* Test basic obstacle collision avoidance.
* Refine directional IR code.
* Design IR transmitter.
* Begin testing of directional IR code.

**Issues**

* In consideration of having to fabricate rather than purchase a mechanical replacement part, monitoring is required.
* Slight chassis modification required to accommodate fabricated part and potentially for the body of the vehicle.
* Overcome limit of arduino delay() and puslein() commands - potentially through use of interrupts.

**Schedule**

