Midterm Progress Report

ARC - Autonomous RC

Senior Capstone Project

Oregon State University

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1 Project purpose and goals

The purpose of the Autonomous RC (ARC) project is to determine if it is possible to build an autonomous RC vehicle using commodity components, meaning components that are relatively inexpensive and can be bought at places like Radio Shack®, Best Buy®, or on Amazon.
Our goal is to make an RC vehicle navigate autonomous to a given waypoint/location, preferably at a high rate of speed. Stretch goals are to make the vehicle drift around corners and parallel park.

Fig. 1. Drifting example. Image from https://autorally.github.io/

While our main goal is to have a functioning autonomous RC vehicle we also hope that we can produce instructions that RC enthusiasts can follow to produce a functioning, consumer-grade autonomous RC vehicle of their own.

2 Current Status

3 Week-by-week summary of activities

3.1 Weeks 1 - 2

3.2 Week 3

- *Activities*:
- *Problems*:
- *Solutions*:

3.3 Week 4

- *Activities*:

- *Problems*:
- *Solutions*:

3.4 Week 5

- *Activities*:
- *Problems*:
- *Solutions*:

3.5 Week 6

- *Activities*:
- *Problems*:
- *Solutions*:

4 RETROSPECTIVE

Positives:	**Deltas:**	**Actions:**
Anything good that happened.	Changes that need to be implemented.	Specific actions to resolve deltas.