SCHEDULE PROPOSAL

- AUGUST 1st Team process alignment
- AUGUST 7th MOCK course mapped
- AUGUST 14th AVOIDANCE
- AUGUST 21st RECOVERY
- AUGUST 25th SUBMIT VIDEO

COURSE NAVIGATION APPROACH

ASSUME NO ERRORS

- Assume no obstacles
- Create mappings for
- Distance and Speed to travel relative to where you are
- Turn points with angles

AVOID ON DETECT

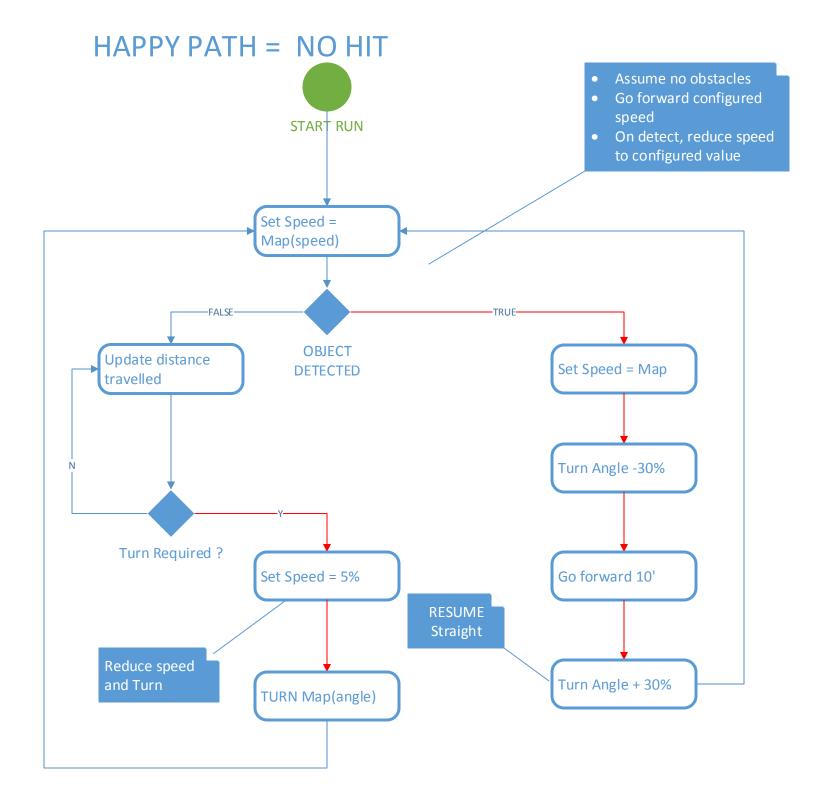
- Design obstacle avoidance
- Create mappings for
- Detect and Correct with angles and resume speed

RECOVERY

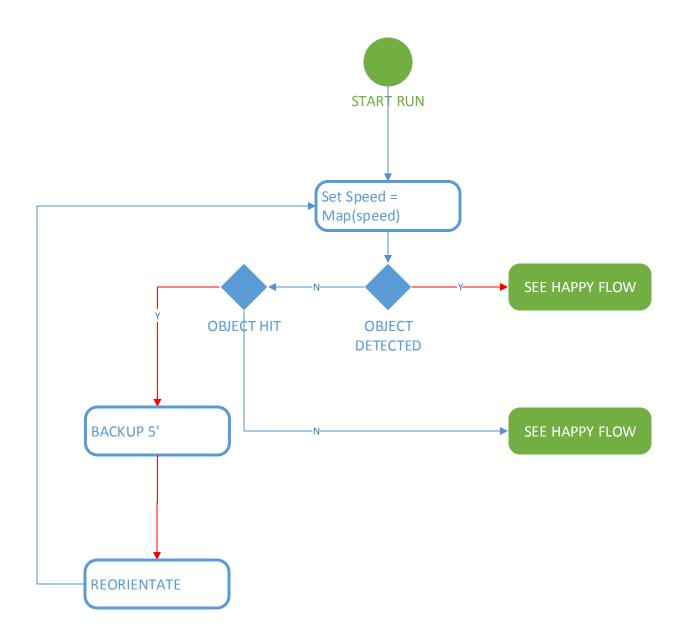
- Backup
- Reorientation
- Resume

TEACH AND LEARN

- MONITOR Wheel Slipage
- TRAIN using "most likely" predictions



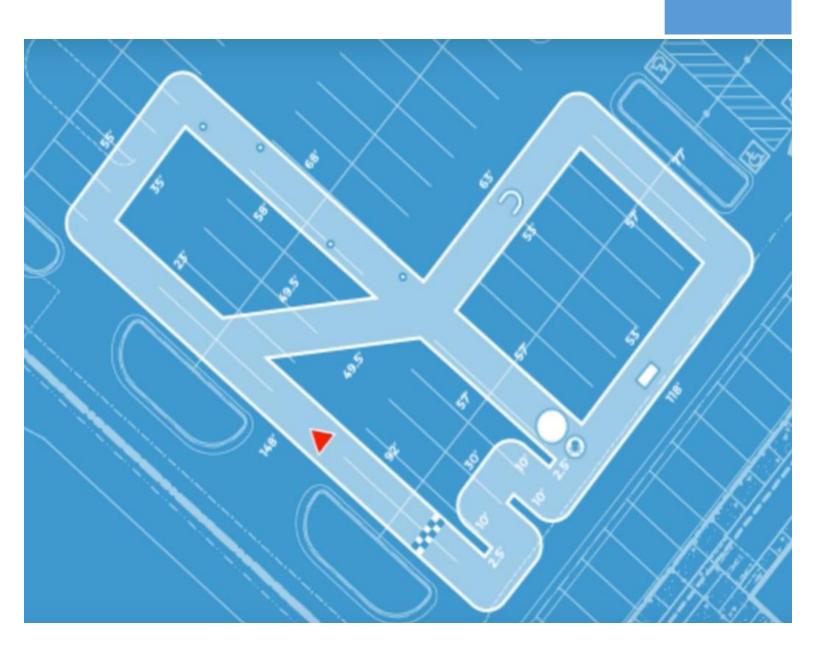
HIT RECOVERY



2016 Sparkfun Autonomous Vehicle Course

APPROXIMATE DISTANCES from start until turn is made





Scaled down map

#define LEG1 120
#define LEG2 45
#define LEG3 58
#define LEG4 53
#define LEG5 66
#define LEG6 63
#define LEG7 8
#define LEG8 8
#define LEG9 8

Scaled down version 3' 3' 1' 10' 1.5' 1.5' 4'

TEST PLAN APPROACH

8-13	Basic Course Navigation
8-17	Dynamic RPM Adjustment
8-20	LIDAR Input and Adjustment
8-24	Backup and Realign
8-27	Recovery
8-31	TEST New course

Fix Drift Issues Distance

Autonomous Vehicle Schematic

