

Readme:

FSE100: Intro to Engineering

Spring 2023

Arizona State University

Project Spyn (Master Project)

Team Members:

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Juan J.

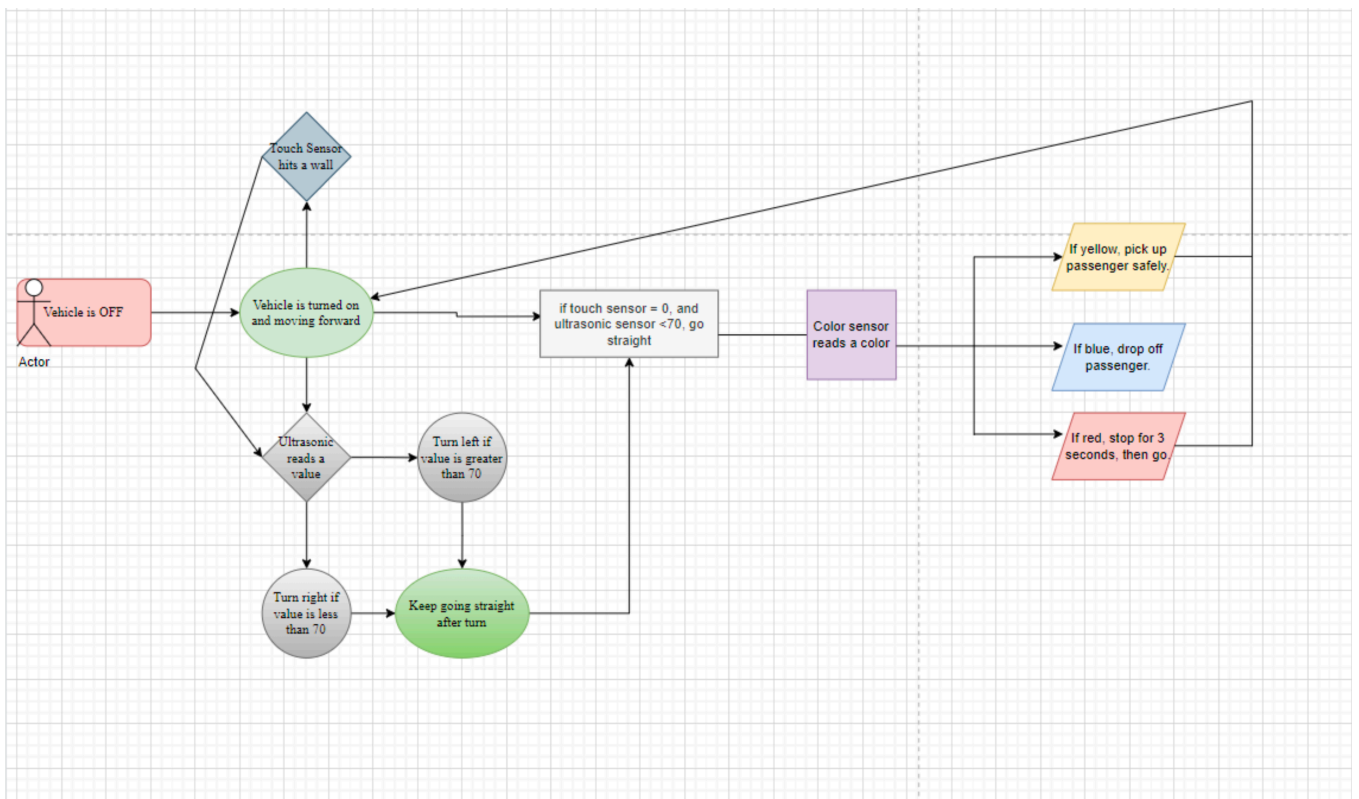
Kelly Tran

Suma M.

Description:

Project Spyn, developed for the Spring 2023 session of FSE 100: Introduction to Engineering, is an autonomous vehicle simulation using a Lego EV3 robot programmed in MATLAB. The project aimed to simulate the pickup and transport of a passenger with accessibility needs by navigating a maze, stopping at "red lights" marked by red squares, and safely delivering a cardboard cutout to a designated location. The robot navigated autonomously except during pickup and drop-off, where a human operator briefly controlled it. This project integrated autonomous navigation, obstacle detection, and signal recognition to address real-world engineering challenges.

Behavior of the model:



Demonstration Video:

FSE100 Project SPYN: Final Submission