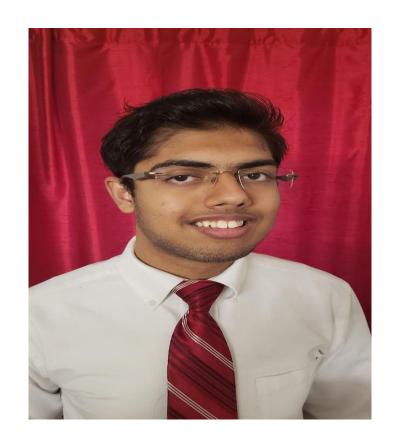


Team Introduction



Varun Lagadapati Computer Science



Cyrus Bilpodiwala Computer Science

Overview of Project

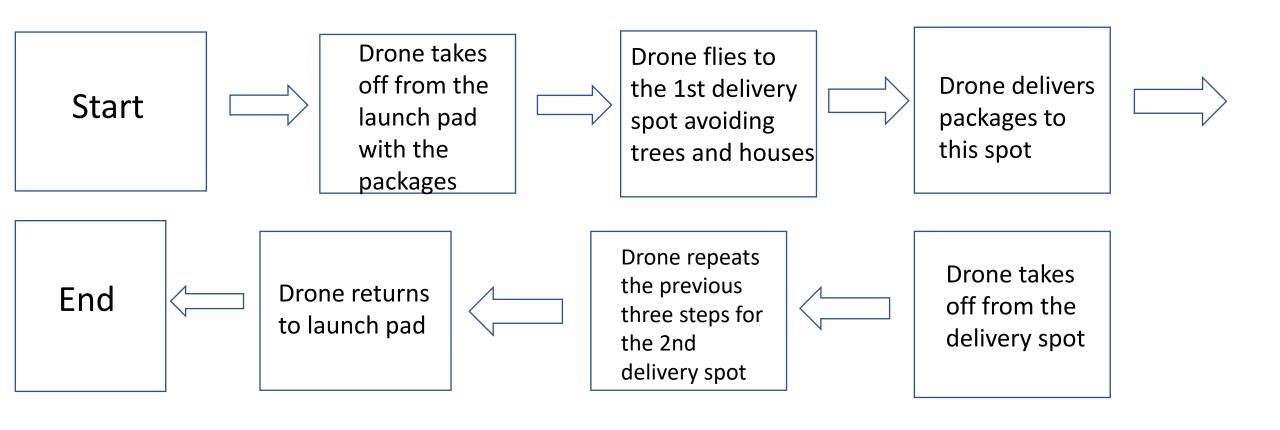
- Background
 - DJI Tello drone delivers packages
- Goals
 - Planning a path to deliver packages while avoiding obstacles



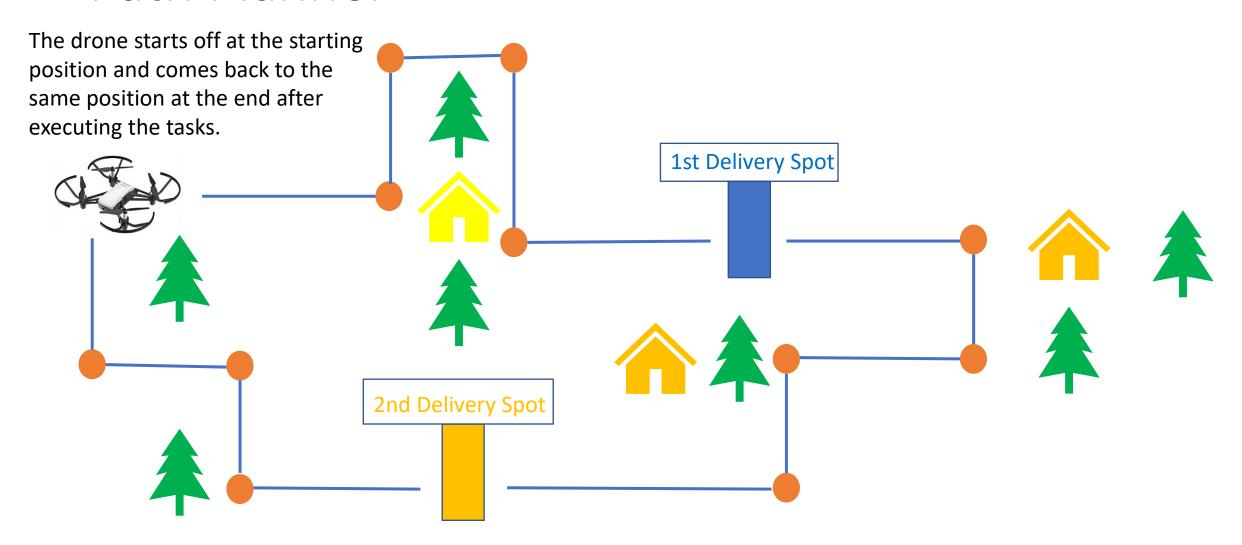
Assumptions

- Drone is in the static scene
- Drone already has the packages from the pickup spot so it will deliver them to the designated spots
- Drone can perform regular operations such as going forward, backward, left, and right

Task Planner



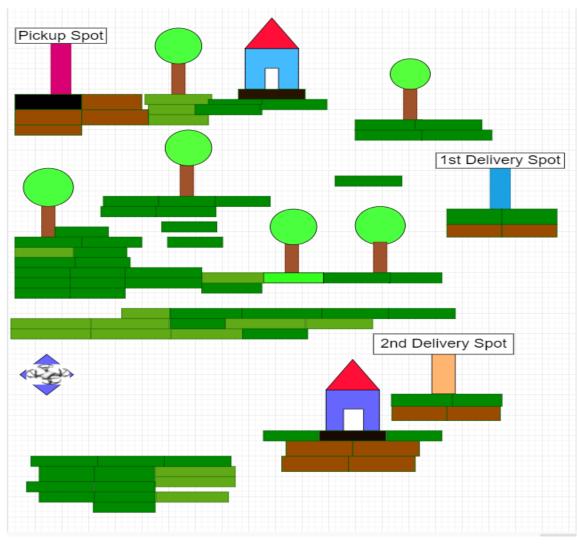
Path Planner



Outcomes Targeted

 DJI Tello drone transports supplies in optimal time and accounts for all the constraints like avoiding obstacles including trees and houses, having limited sensory capabilities, limited flight time, and payload capacities given

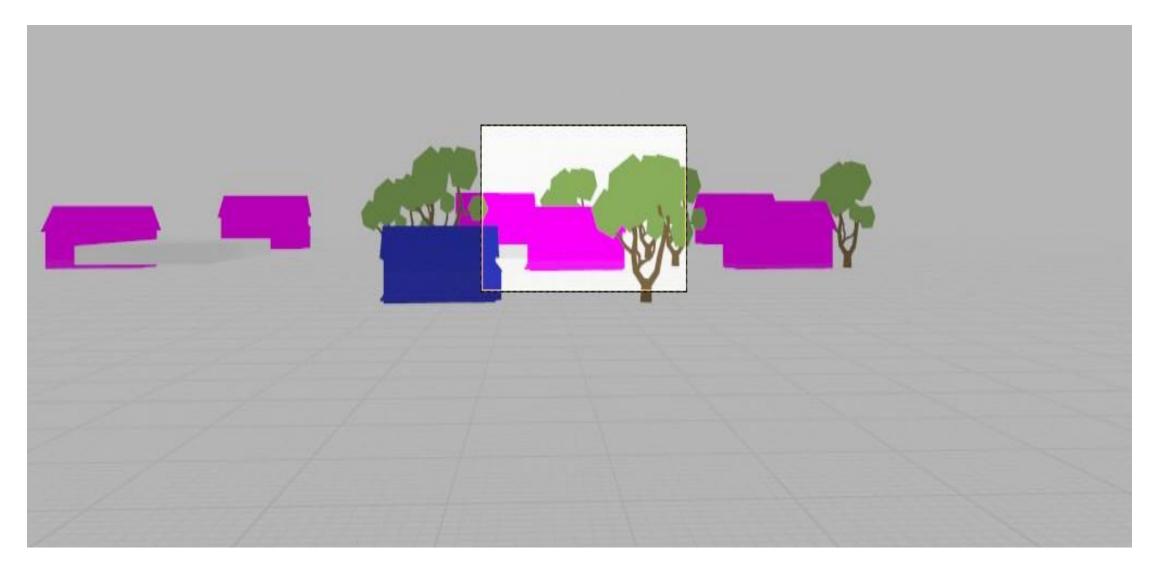
Drone Delivery Image



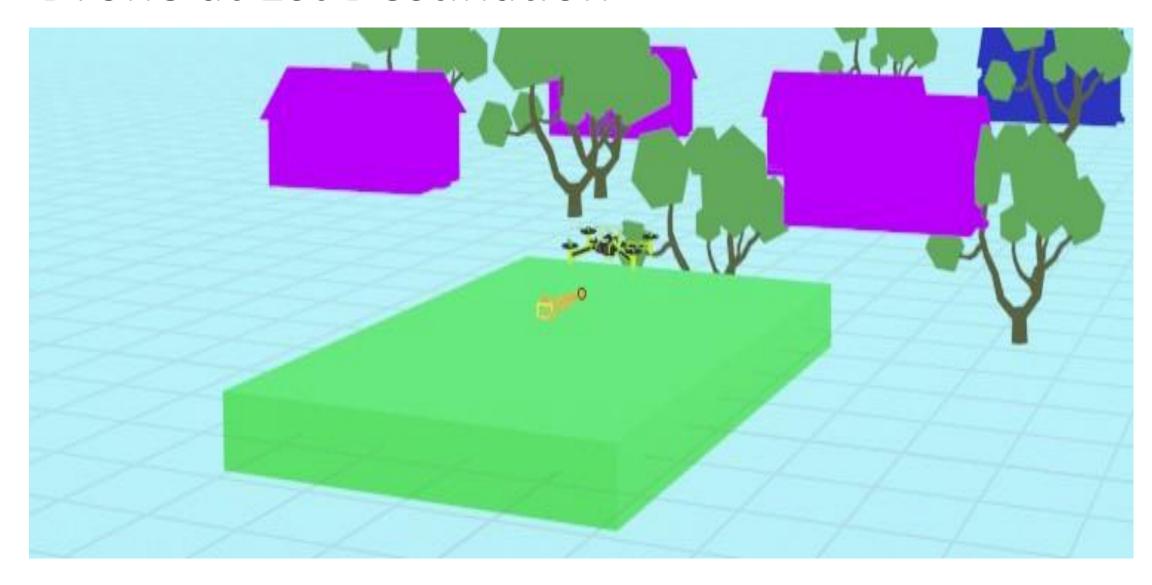
Past Simulation



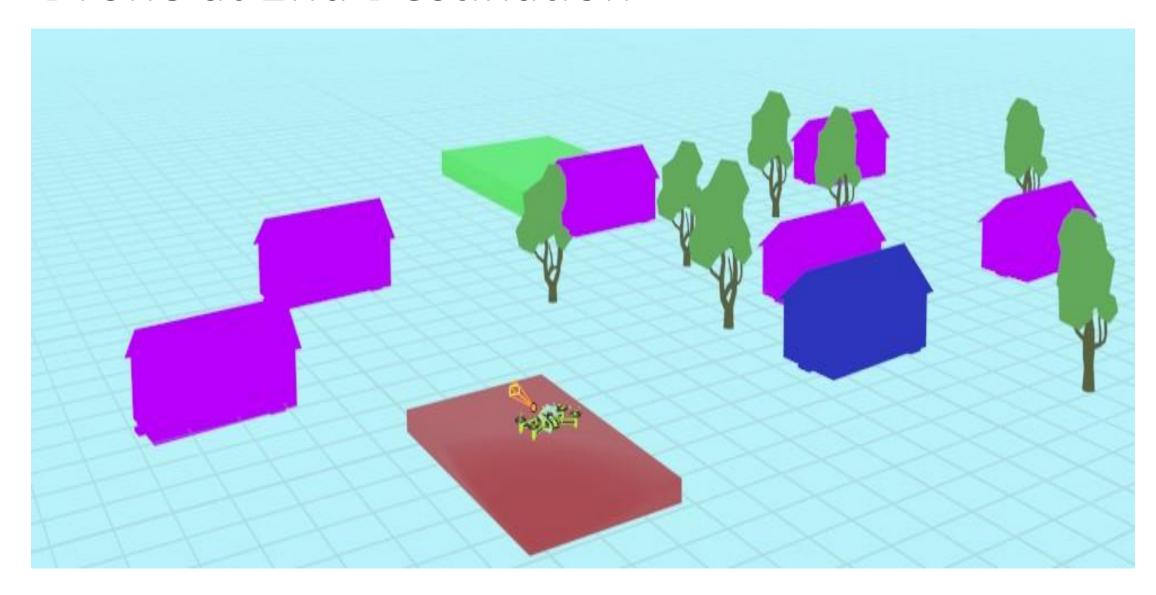
Drone Camera's Front View



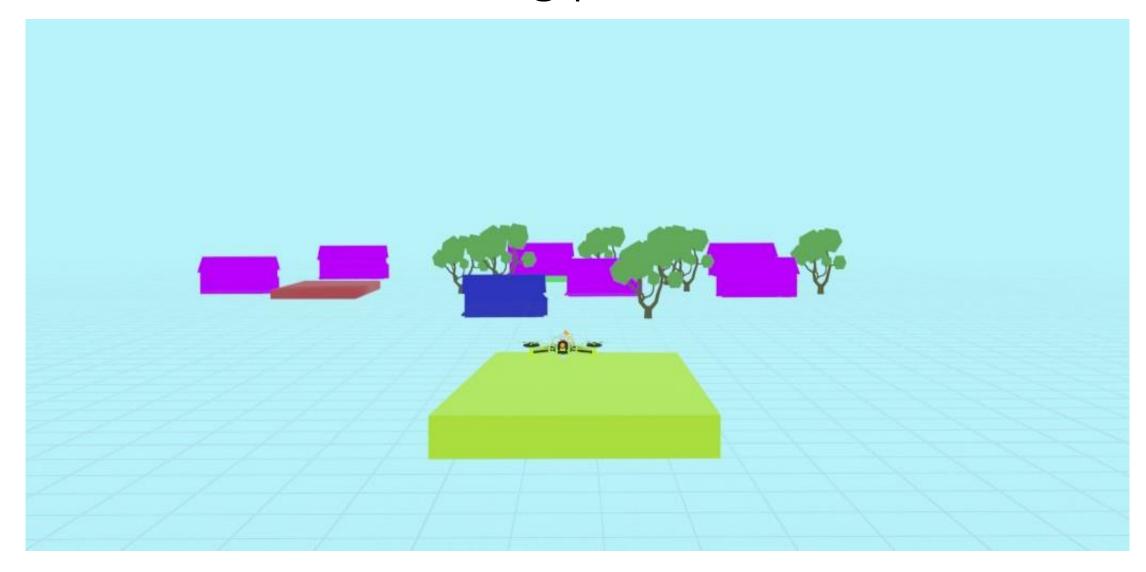
Drone at 1st Destination



Drone at 2nd Destination



Drone back to starting position



Reference

 Constantine Samaras Assistant Professor of Civil and Environmental Engineering, & Joshuah Stolaroff Environmental Scientist. (2019, August 27). *Delivering* packages with drones might be good for the environment. The Conversation. Retrieved November 3, 2021, from https://theconversation.com/delivering-packages-with-drones-might-be-good-for-the-environment-90997.