# Drone Project

Studio - 5  Seymour Reeves-Boddy

1 Drones Cost a lot of Money

2 Operating Costs are increadibly high

3 Dificult to use and training is required

# Problem

1 Cheap and easily replacable platform

2 DIY and fixable by user

3 Minimal knowldge required

# Solution

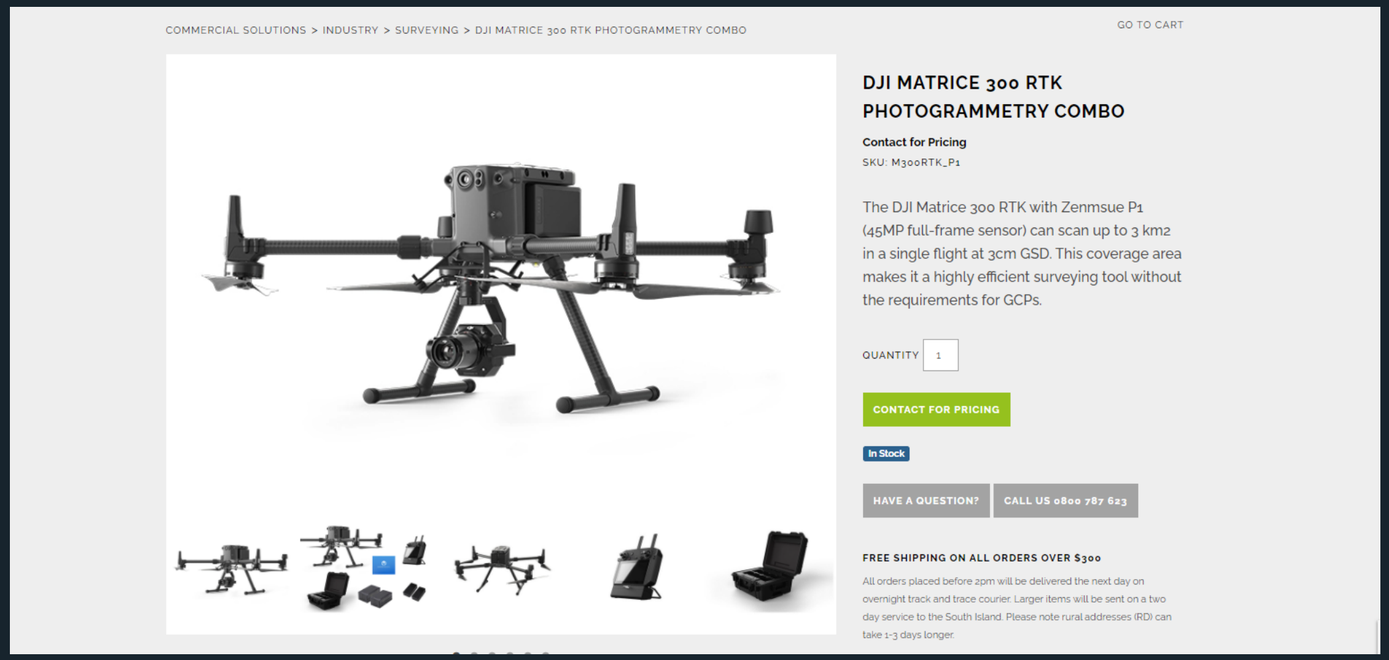
# Plan

My main goal for this Studio 5 project is to create a drone that is both cheap and easy to use, for the end user.
Drones play a big part in surveying and other tasks and i want them to be easily accessible to farmers and doc for suevrying operations.

Currently,most drone projects are done by large scale operations that use very large and expensive drones to complete the task. They also require a trained operator that adds to this cost.

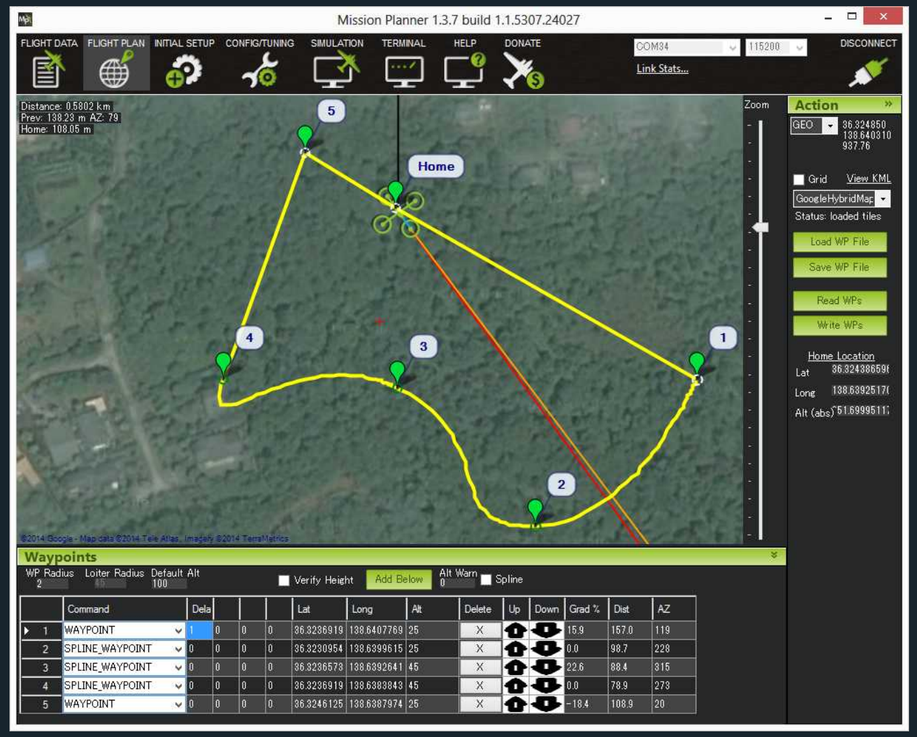
Once i have a 3d printed Drone that is cabapale of completing tasks. I wil begin to work on devloping a Aplication that will interface with the drone and allow the users to create waypoint missions for the drone to follow then begin to genrate a map of the surveyd area

# Research



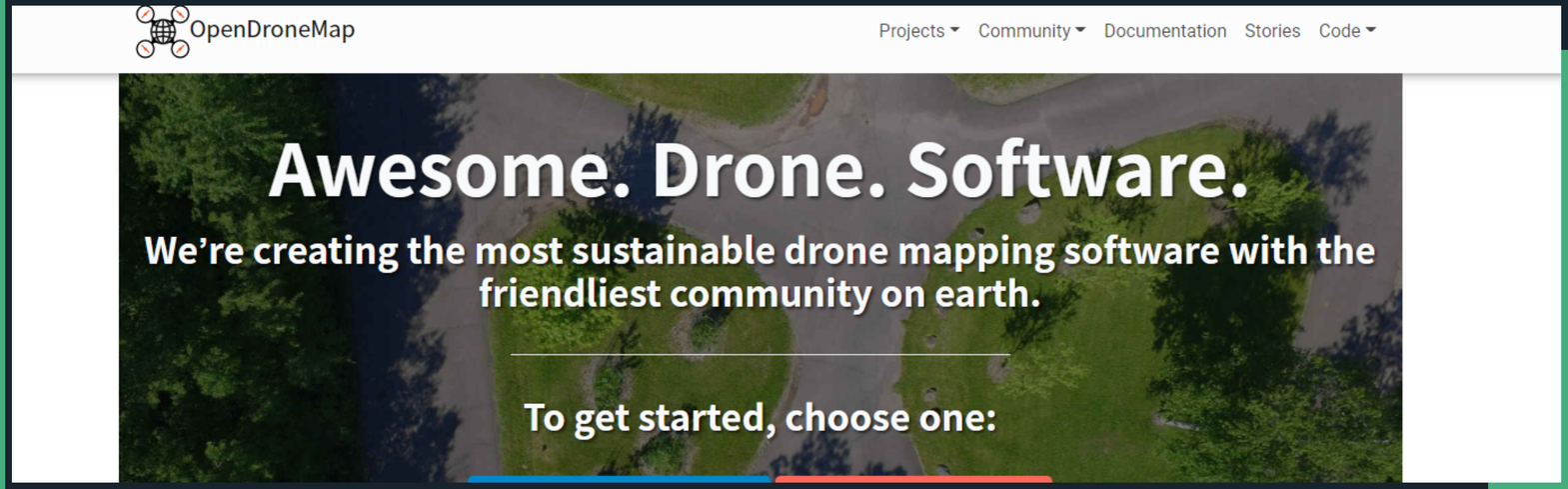

Drones Such as this one are increadibly usefull for surveying but cost upwards of $40,000 NZD and this inherit cost can be a big hurdle for users and i seek to create omething that might not be as advanced as a $40,000 drone but still give the user what they need, that be surveying or other required operations.

# Applications



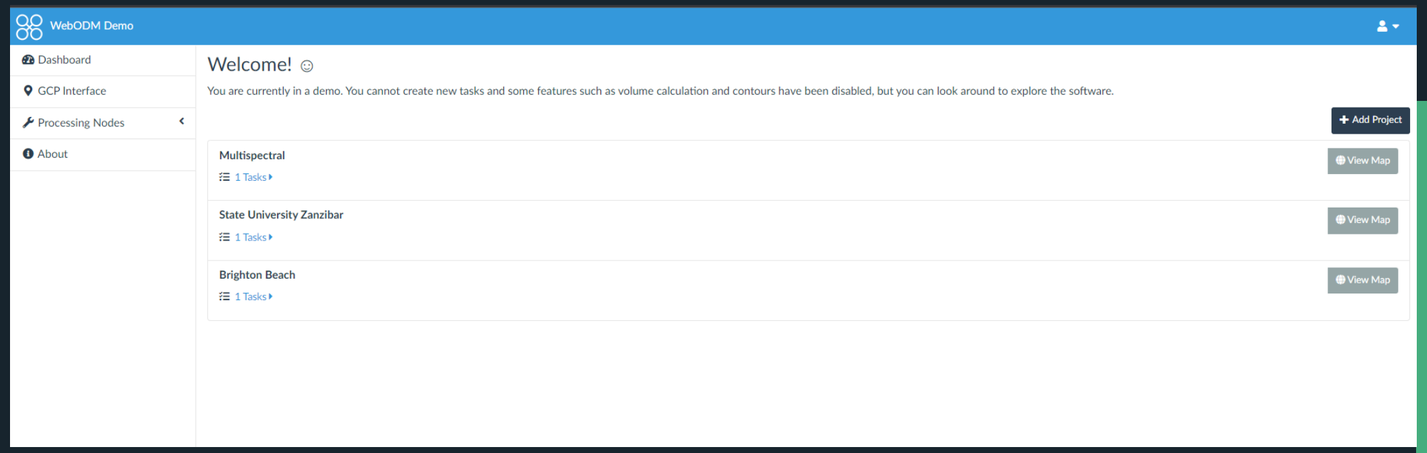

Ardu Pilot is the main aplication that i will be using for testing and creating missions for the drone
it is an open source project with extensive documentation on utilizing it to its full potential.
and it easily interfaces with GCS (Ground  Control Software)
that i hope to create

# Applications




Open Drone Map is another key software that i am using to facilitate my project.
It is also a very trusted open source codabaser that allows for image stiching and creating maps with captured images it will also interface with my aplication allowing the users to easily see the mapped area the drone has been,
I chose this software as it its open source and i can build on an already devloped and tested platform,
it is also the most full featured drone mapping solution

# Applications




Open Drone Map Also has the WEBODM that can be used to create a web aplication to my needs for orgazning jobs for the images to be proccesd and get multiple types of data from the images.