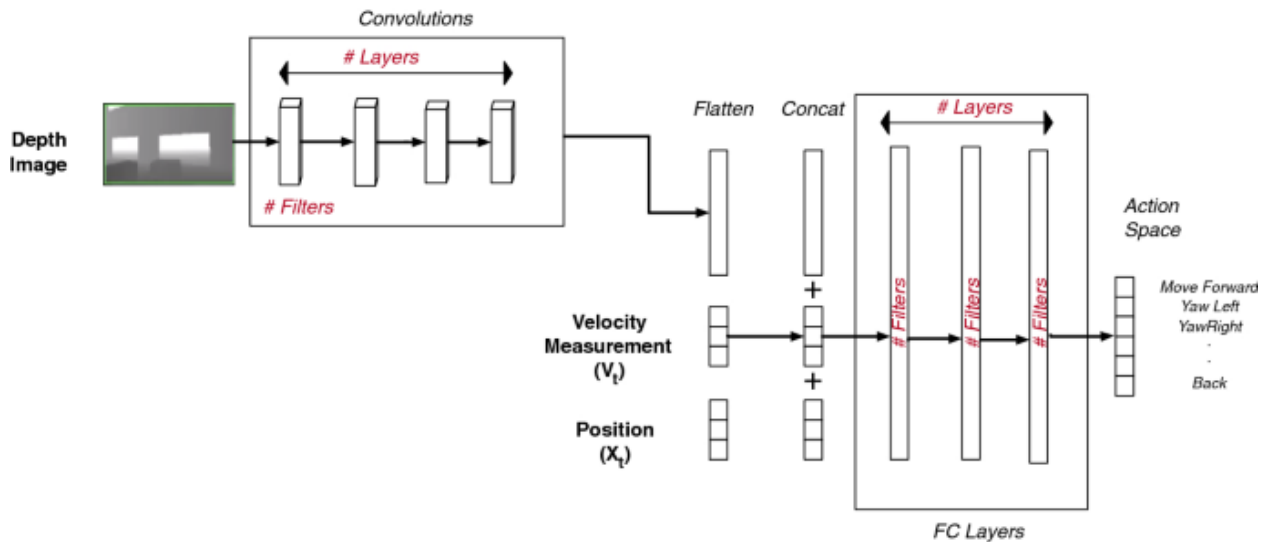


Deliverable 2

1. Problem restatement: Reinforcement Learning in Autonomous Drone with visual navigation
2. Data Preprocessing: Finished set up the gym environment and Unreal Engine that will be used for constructing the gym for learning.
3.
 - a). the model is implemented by AirSim, Unreal Engine, Tensorflow and Keras. The name of the models are called Deep Q-Networks and Proximal Policy Optimization.

Network architecture:



- c. test the drone behaviour in a new environment and calculate the collision rate. If the collision rate in the training env is really low while it has a high collision rate outside, then it is an overfitting
 - d. I can't set up the training algorithm so far. The github repo is really old and all packages given have ben updated a lot so there are so many attribute errors while trying to execute the script. I am still working on solving it.
4. Don't have any training results yet.
 5. Next steps: Fixing the problem that can't execute the training algorithm script. Once it is fixed, then everything should be easy.