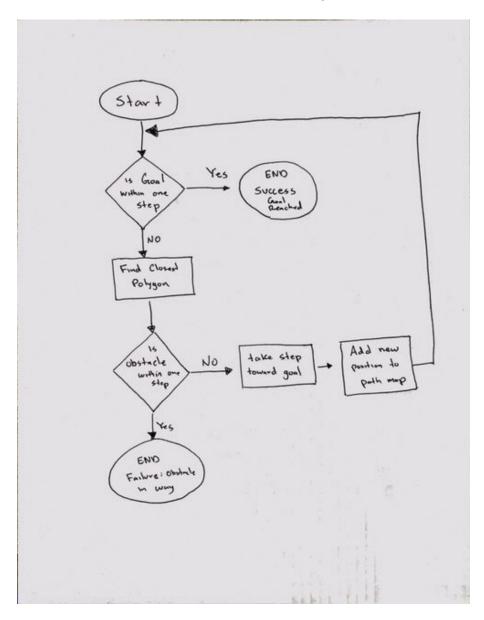
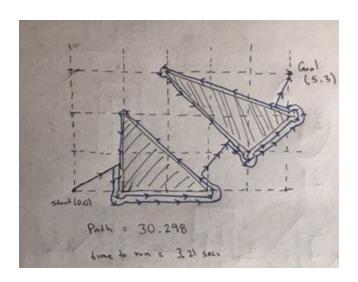
Lab 2
Flow Chart for BUG BASE ALgorithm



The flaw in the bug base algorithm is that if an obstacle is in proximity of the robot the program will end in failure. In order to make this program complete we need to modify the algorithm to be able to deal with these obstacles. The ideas is instead of ending when the robots encounters an obstacle. The robot shall compute the vector tangent to the surface of the obstacle, using a function like computeTangentVectorToPolygon. After the robots should take a step in the direction of the tangent vectors. Repeating these two steps over and over until the obstacle is no longer in between the robot and the Goa endl point.



Path = 30.298

Runtime = 3.21 s