Standard Search Algorithms Implementation Report

Name: Aniket Patil Email: [apatil2@wpi.edu](mailto:apatil2@wpi.edu)

# **Questions and Answers:**

# **Algorithm Results and Explanation:**

PRM: This implementation uses 4 sampling methods: Uniform, Random, Gaussian and Bridge Sampling. The outputs received from these 4 sampling methods vary highly based on the sampling methods. Not only the method used, but also the parameters given to the sampling methods. I tried to concentrate these parameters to the top of the code in the form of static global constants.

RRT vs RRT\*: Both these methods produce different results, this can be seen in the images below.

The reason for this varied

# **Reference Papers and Resources:**