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**MEEM 4707: Autonomous system**

**Spring, 2024**

**Lab - 7**

**By**

**Student Name**

# **Problem 1**

Start: (0,0)

Obstacle/Radius: (1.28, 1.33) / 0.25m

goal:(2,2)

Plan paths using the potential field method from the initial location to the goal position using the three grid sizes below. Submit the figures of generated paths for all three cases. Summarize your observation about each path. Explain how the resolutions cause differences.

Note: Please use Spyder to write this Python script.

(1) Make the grid size as 1m

(2) Make the grid size as 0.5m

(3) Make the grid size as 0.1m