Robot Trajectory with the Synthesized Controller for Trial 1 from t = 20 to t = 505.5 Trajectory Sensor Estimated Location for Obstacle 1 5.0 Sensor Estimated Location for Obstacle 2 Obstacle Location 1 Obstacle Location 2 4.5 4.0 3.5 3.0 2.5

5.0

5.5

3.0

3.5

4.0

4.5

2.5