Robot Trajectory with the Synthesized Controller for Trial 39 from t = 20 to t = 505.5 5.0 4.5 4.0 3.5 3.0 Trajectory Sensor Estimated Location for Obstacle 1 Sensor Estimated Location for Obstacle 2 2.5 Obstacle Location 1 Obstacle Location 2

4.0

4.5

2.5

3.0

3.5

5.0

5.5