CSCI 445 — Task-Sheet for Lab 8 & 9

Team Members: _		_
Robot ID:		

Question:	1.	4.1	4.2	5.1	5.2	Total
Points:	10	108	50	20	10	198
Score:						

NOTE: The points roughly reflect our estimate on how long each task should take.

1. Prelab [TA Signoff]

(a) (5 points) Write down the equations or pseudocode of the functions you will use for the three functions outlined in Part 3 (Movement, Sensing, Estimation).

(b) (5 points) Write down any parameters you will need in your calculations (variance on motion, sonar measurements). How did you determine these values?

4.1.	Par	ticle Filters with Manual Motion Control (Simulation)
	(a)	(100 points) Demonstration [TA Signoff]
	(b)	(8 points) How much does the robot need to move and sense to localize itself? Does that depend on any factors? [TA Signoff]
4.2.	Par	ticle Filters with Manual Motion Control (Robot)
	(a)	(50 points) Demonstration [TA Signoff]
5.1.		ticle Filters with Automatic Motion Control (Simulation) [TA Signoff] (4 points) Algorithm: [TA Signoff]
	(ω)	(Tpontoo) Ingoronia [III Signon]
	(b)	(1 point) Achieved Accuracy & Time-to-finish: [TA Signoff]
	(c)	(15 points) Demonstration [TA Signoff]
5.2.	Par	ticle Filters with Automatic Motion Control (Robot)
	(a)	(5 points) Achieved Accuracy & Time-to-finish: [TA Signoff]
	(b)	(5 points) Demonstration [TA Signoff]