

RBE3002 Lab2: Mobile Robot Kinematics and Odometry

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Lab Sign-offs

TASK	Simulated*	Real	SIGNED BY	DATE/TIME
Prelab			<i>JTB</i>	3/24
Spin Wheels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>JTB MB</i>	3/30
Drive Straight	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>JTB MB</i>	↓
Rotate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>JTB MB</i>	3/30
Bumper Press Trajectory	<input type="checkbox"/>	<input type="checkbox"/>		
Nav To Goal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>MB</i>	3/30
Drive Arc *	<input type="checkbox"/>	<input type="checkbox"/>		
Ramped deceleration *	<input type="checkbox"/>	<input type="checkbox"/>		

*Demonstrating each capability on the simulator or on the real robot is sufficient. However, only 80% credit will be given for tasks shown only in simulation.

Grading Rubric

[100 points] All pre-lab and in-lab procedures are completed and demonstrated prior to the deadline. All deliverables and sign-off sheet are submitted on time. The code is well commented and structured.