REPORT COMPONENT (100%)

CAI3034N Autonomous Mobile Robotics MARKING RUBRIC ASSIGNMENT 2 Assignment Weighting (30%)

LEARNING OUTCOME	MARKING CRITERIA	SCALE					
		Fail (0-49)	3 rd Class (50-59)	2 nd Lower Class (60-69)	2 nd Upper Class (70-79)	1 st Class (80-100)	YOUR MARKS/COMMENTS
CO2: Critically evaluate the range of possible applications for mobile robotic systems including requirements for industrial, service and social robotics, human-robot interaction, robot vision and sensing, and ethical and economics analysis of robot. (C5, PLO7)	Hardware and algorithm development (40%)	 Improper hardware configuration and algorithm development. No functional obstacle avoidance. Fail to detect metal and provide both visual and auditory feedback. 	Basic hardware configuration and algorithm development. Limited obstacle avoidance; frequent collisions. Rarely detects metal or fails to provide meaningful visual or auditory feedback.	Adequate hardware configuration and algorithm development. Basic obstacle avoidance achieved; occasional errors Detects metal inconsistently or provides only one type of feedback (visual or auditory).	Good hardware configuration and algorithm development Successfully avoids most obstacles; minor errors in complex scenarios. Detects metal accurately in most cases and provides both visual and auditory feedback, with only minor issues.	Excellent hardware configuration and algorithm development. Successfully navigates complex courses with zero collisions. Successfully detects metal with consistent accuracy and provides both visual and auditory feedback without errors.	
	Documentation (50%)	Content is inaccurate. Information is incomplete, inaccurate, or not presented in a logical order, making it difficult to follow. Do not provide details about sensors, technique used in navigation, obstacle avoidance, and metal detection. No results and discussion.	Content is either questionable or incomplete. Information is not presented in a logical order, making it difficult to follow. Little explanation on sensors, technique used in navigation, obstacle avoidance, and metal detection. Results are presented but poorly discussed.	Content is accurate but some required information is missing and/or not presented in a logical order, making it difficult to follow. Reasonable explanation on sensors, technique used in navigation, obstacle avoidance, and metal detection. Results are presented with reasonable discussion.	Content is accurate but some required information is missing and/or not presented in a logical order, but is still generally easy to follow. Good explanation on sensors, technique used in navigation obstacle avoidance, and metal detection. Results are presented with good discussion.	Content is accurate and all required information is presented in a logical order. Excellence explanation on sensors, technique used in navigation, obstacle avoidance, and metal detection. Results and discussion are very well presented which give the reader important information that goes beyond the obvious or predictable.	
	Code quality (10%)	Very poor program structure and without code comments.	Poor program structure but with some code comments.	Clear program structure and appropriate comments.	The program code is well structured and commented.	The program code is efficient, well structured, and commented.	

Overall score (100%)