CprE 288 Lab Evaluation Form – Lab 9

Lab Partners   _____

                    _____

Section/Lab Time   _____

Done	Roles	Description	Points
		Prelab questions (5)	
	DRIVER: NAVIGATOR:	Part 1: Pulse the sensor, check for reasonable behavior (10) • Flash PING light (or show PING sensor being triggered with an oscilloscope) once per second. • Show with the oscilloscope that the PING sensor is responding reasonably to an object being moved to different distances in front of the Cybot.	
	DRIVER: NAVIGATOR:	Part 2: Sensor signal measurement (15) • Determine pulse width in clock cycles, print the number of clock cycles to the LCD • Show that the time in clocks cycles, matches the time measured with the oscilloscope	
	DRIVER: NAVIGATOR:	Part 3: Continuous distance measurement (15) • Compute and display PING sensor pulse time • Compute and display object distance • Account for overflow?	
		Coding quality (5) • Are there warning messages? • TA feedback to improve for next lab	
		Bonus (2 pts): IR auto-calibration • Makes use of Movement, IR, and UART APIs you created in previous labs, to help automate calibrating the IR sensor.	

Turn in for Lab 8:   Evaluation form with TA signature

TA Signature _____   Date _____

Subtotal _____

Late Penalty _____

Score _____ / 50