

CprE 288 Lab Evaluation Form – Lab 8

Lab Partners _____

Section/Lab Time _____

Done	Roles	Description	Points
		Prelab questions (5)	
	DRIVER: NAVIGATOR:	Part 1: Initialize ADC (15) <ul style="list-style-type: none"> • Initialize, and configure registers used for ADC • Display quantized values read from the IR sensor 	
	DRIVER: NAVIGATOR:	Part 2: Calibrated distance measurement (10) <ul style="list-style-type: none"> • Justified with a detailed description of how choices were made for calibration. • Create equation or table for calibrated distance values • Readings are within 1 cm of actual values • Accurate from 9 cm to 50 cm • Implement an averaging mechanism (Software or Hardware) 	
	DRIVER: NAVIGATOR:	Part 3: Visualizing Data (5) <ul style="list-style-type: none"> • Demonstrates IR/ADC data output in Putty and to a file • Correctly graphs distance and quantization value using a tool (e.g. Matlab, Excel, etc.) 	
		Coding quality (5) <ul style="list-style-type: none"> • Fully, and cleanly formatted and comment cod • TA feedback to improve for next lab 	
		Bonus (Up to 2pts) <ul style="list-style-type: none"> • Perform a recalibration of the IR using an autonomous / semi-autonomous approach (2) 	

Turn in for Lab 8: Evaluation form with TA signature

TA Signature _____

Date _____

Subtotal _____

Late Penalty _____

Score _____ / 40