

Car/Blimp Lab Report

Group: _____

The following information is intended as suggestions to material that would logically be included in the report. It is not intended as a direct guide. You have done the experiments, so you have the best idea of what you needed to complete those projects and what you learned during the process. This means that the following information may be incomplete based on your experience with the project. If you feel part of what you did during the laboratory is pertinent, include that information.

Introduction

Abstract	_____	_____	
Purpose/Objectives	_____	_____	
Overview of controller	_____	_____	
_____	_____	_____	Sum: _____

Hardware Description

Overview	_____	_____	
Speed controller	_____	_____	
Servo motor	_____	_____	
Compass	_____	_____	
Ranger	_____	_____	
Serial Bus	_____	_____	
Chip(s) (Buffer)	_____	_____	
Pin connections from priority table	_____	_____	
_____	_____	_____	Sum: _____

Software Description

Overview/Description	_____	_____	
Initialization - Ports, PCA, ADC, XBR0	_____	_____	
Use of the PCA	_____	_____	
Pulse Streams	_____	_____	
Setting the Crossbar	_____	_____	
I2C Read and Write	_____	_____	
Use of SMB	_____	_____	
Reading Analog Input, A/D Results	_____	_____	
Control loops	_____	_____	
Timing	_____	_____	Sum: _____

Results & Conclusions

Analysis of results	_____	_____	
Description of gondola performance	_____	_____	
What was Learned	_____	_____	
Problems Encountered & Solution	_____	_____	Sum: _____

Code

Format (Indents, etc.)	_____	_____	
Commented	_____	_____	Sum: _____

Flowchart

Content	_____	_____	
Format	_____	_____	Sum: _____

Schematic

Content (Chips, Devices, Buses, Slaves, Master, Passive components, etc.)	_____	_____	
Format	_____	_____	Sum: _____

Division of Labor

Y/N	_____
-----	-------

Formatting & Neatness

Consistent Page Numbering thru report	_____	_____	
Cover Sheet	_____	_____	
Table of Contents	_____	_____	
Figure numbers/captions	_____	_____	
Tables numbers/captions	_____	_____	
References (Proper Format)	_____	_____	
Spelling & Grammar	_____	_____	Sum: _____

Lateness

-20% per School Day	-20 x _____	_____	Sum: _____
---------------------	-------------	-------	------------

Total

100

Total Points: _____