

ENG H191 Lab 3: Motors - Lab Report Rubric (page 1)

Name:

Section (day/time):

Survey to be completed by the student (worth 2 points)		
Estimated total time spent (to nearest 0.5 hours):		1 , 0
Percent of "FEH Guide to Lab Reports and Memos" that you used <i>for this lab</i> (100% - read the whole thing, 0% - didn't look at it)		1 , 0

Team Working Agreement completed and turned in <i>during lab section</i>	3 , 0
---	--------------

Format

F1: completeness of sections (**Title page**; **Intro** gives purpose, summarizes what was done, describes report contents; **E.M.** describes what was done and how; **R.& D.** Presents all data collected and observations made; **Disc** analyzes the results; **S.& C.** summarizes what was done, concludes based on data/discussion)

6	all sections complete	4	everything present, but not in proper sections	2	one part of a section missing	0	>1 portion missing, or section omitted
----------	-----------------------	----------	--	----------	-------------------------------	----------	--

F2: title page, font, spacing, page numbering, appendix formatting

4	perfect	3	one error	1	two errors	0	>2 errors
----------	---------	----------	-----------	----------	------------	----------	-----------

Data

F3: neatness, clarity, placement

4	clear, easy to read/find, and appropriately placed	3	too much data in report body, or important data not in report body	1	lack of clarity/neatness makes it difficult to read	0	poorly organized or messy
----------	--	----------	--	----------	---	----------	---------------------------

F4: proper labeling, referencing, units, citation

6	perfect	4	some improper labeling, referencing, missing units	2	consistent improper labeling or referencing	0	contains unlabelled or unreferenced figure/table(s)
----------	---------	----------	--	----------	---	----------	---

Language

F5: formal/technical level

3	appropriate	2	some informal language or misuse of technical terms	1	consistent informal language or misuse of technical terms	0	language at an unprofessional level
----------	-------------	----------	---	----------	---	----------	-------------------------------------

F6: clarity

3	lucid	2	some awkward language	1	portions unclear	0	portions very difficult to understand
----------	-------	----------	-----------------------	----------	------------------	----------	---------------------------------------

F7: level of detail

3	complete and concise	2	parts too wordy/vague but still get the idea across	1	detracts from the flow or ability to understand	0	major details consistently omitted
----------	----------------------	----------	---	----------	---	----------	------------------------------------

F8: spelling, punctuation, grammar, tense/person

6	perfect	4	minor mistakes don't detract from readability	2	consistent errors detract from readability/ professionalism	0	obvious lack of proofreading
----------	---------	----------	---	----------	---	----------	------------------------------

NOTES: Make sure to fill out the survey at the top for 2 points. Please be honest, as the information will be used to assess future lab requirements. Major points can be lost for not including all necessary parts of each section (F1), not proofreading (F8), or not labeling and referencing (in the text) **every** figure and table (F4).

pg 1 total: /40

pg 2 total: /60

TOTAL: /100

ENG H191 Lab 3: Motors - Lab Report Rubric (page 2)

Introduction	I1: overall quality	6	good summary of the exp. and appropriate purpose	3	poor summary xor inappropriate purpose	0	poor summary and inappropriate purpose
Experimental Methodology	M1: overall quality	6	complete enough for reader to reproduce the experiment	3	thorough, but some details omitted	0	reader likely couldn't reproduce exper.
	lab-specific requirements		present, well-described, correct	poorly described xor incorrect	poorly described and incorrect, or missing		
	M2	sketch servo/dc motor setup	2	1	0		
	M3	method for finding commercial DC motor speed	2	1	0		
Results and Description	R1: overall quality	2	well-organized, thorough, objective	1	data present but difficult to read/find	0	poor organization or not objective
	lab-specific requirements		present, well-described, correct	poorly described xor incorrect	poorly described and incorrect, or missing		
	R2	table-stepper motor switches	2	1	0		
	R3	wiring diag.-stepper motor	2	1	0		
	R4	sketch prebuilt ac/dc motor (label)	3	2	0		
	R5	sketch handmade motor (label)	3	2	0		
	R6	graph PW vs. angle for servo	2	1	0		
	R7	commercial DC motor speed	2	1	0		
	Discussion	D1: overall quality	4	shows good understanding of concepts	2	shows need for more work on some concepts	0
lab-specific requirements		present, well-described, correct	poorly described xor incorrect	poorly described and incorrect, or missing			
D2		stepper motor resolution	2	1	0		
D3		handbuilt motor variety of speeds?	2	1	0		
D3		handbuilt motor improvements?	2	1	0		
D4		eqn PW -> angle	2	1	0		
D5		commercial motor: Accuracy of speed meas?	2	1	0		
D5		commercial motor: Feedback application?	2	1	0		
D6		commercial motor: Can be reversed?	2	1	0		
D7		commercial motor: Gear reduced?	2	1	0		
Summary and Conclusions	S1: overall quality	8	based on data and disc., reflects the purpose of exper.	5	conclusions not supported by data or its treatment in disc, or missing summary	0	innappropriate conclusions

NOTES: In future rubrics, the lab-specific requirements will not be given in detail. You will be expected to determine what info, figures, tables, calculations, etc. are appropriate based on the lab write-up.

pg 2 total:

/60