ECE356S Lab 2 Report Format

Cover Page:

- Title and course number
- Names and student numbers
- Lab date
- Submission date

Note:

- Only one report per group
- Both hand-written and typed reports are acceptable
- Do not use a lab book for the report
- The lab report is due 1 week after your lab session

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•	This must l	be handed	in at the	beginning	of your lal	o. One prep	per student.
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3.1 Building the SIMULINK Model

V	Write down the two Fcn functions in the space below:
,	3.2 Linearizing the Model in MATLAB
Vr	rite down numerical values of the equilibrium point (x^*, u^*) , corresponding
e	constant position $y^* = 1$.

Write down A, B and the eigenvalues of A in the space below. Is the linearized system stable or unstable?

Give the physical intuition behind your fiding that the magnetic levitation	ı syster
s stable or unstable.	
Write down the transfer function G(s) and the pole(s) and zero(s).	
Plot the <u>impulse response</u> and discuss whether it is the same one you are	e
expected in your prep.	

P	ot the step response by using the second way (Part (b)).	Discuss if the result
is tl	e same as the one obtained earlier in Part (a).	

4. Summary or Conclusion

Any other observations you wish to describe or comment on.