ECE2260
Lab1 – Notebook Point Breakdown

Communications (Keeping a Proper Notebook)	*30 Points Total*
Written in Ink	4
Student Signed every page	4
Student Dated every page	4
TA Signature for every lab session (-3 each session missed)	6
Student's work Reproducible from notebook	12

2. System Component Measurements	*10 Points Total*
Table of Components (Measured Values)	5
Measured Components used in Matlab	5

3.Analysis of Launcher Circuit	*20 Points Total*
Overdamped:	
Circuit Schematic	2
Derivation of I(t)	2
Matlab Plot of I(t) Expression	2
State Equations Derivations	2
Matlab Comparison of I(t) for 2 Methods	2
Underdamped:	
Circuit Schematic	2
Derivation of I(t)	2
Matlab Plot of I(t) Expression	2
State Equations Derivations	2
Matlab Comparison of I(t) for 2 Methods	2

4. Construction and Testing of Launcher	*10 Points Total*
Measured R and L of Coil	5
Table of Launch Measurements	5

5. Third-Order System	*25 Points Total*
Circuit Schematic	2
State Equations Derivations	6
Matlab Code for ODE45 Solver	3
Matlab Plot of ODE45 Solution	2
Measured V2 Plot	4
Matlab Code for Comparison	3
Matlab Comparison Plot	2
Comments on Measured vs. Calculated Comparison	3

Conclusion	*5 Points Total*

Launch (Extra Credit)	*2 Points Total*
Longest Shots (top 3) in Lab Section (more extra credit)	3