## ECE 2270 Lab 3 Formal Report Grade Breakdown

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Communications:
    /5 Organization (ease of locating figures/code/additional info)
    /5 Clarity of style (ease of reading, and etc.)
    /3 English (grammar, punctuation, and etc.)
   /3 Introduction
   /3 Figure titles and numbers
   /4 Equations explained (at least one sentence between equations)
    /3 Matlab explanations (see page 7, 2c of lab 1 handout)
    /4 Explain how Vo and V1 produce a double spiral
    /30 Total = ABET g score (enter separately on gd sheet)
Component Measurements:
 -10 if completely ignored, including in Matlab
 -5 if not mentioned in report, but included in Matlab calculations
 -2 if in report (appendix) but not referenced or easily found
    /10 Total
Circuit Design:
    /4 Transformation to s domain (include initial cond)
    /2 Determine I(s) from circuit
    /2 Determine Vo(s) and V1(s)
    /2Inverse transform Vo(s) and V1(s) to time domain
 Circuit parameters:
   /2 Psi = +-90 degrees
    /4 a = b including comments if algebraic solver used
    /1 1/alpha >= T
    /3 Matlab plots of double spiral
    /20 Total
Measurements:
    /4 Real spirals plots (dlmread)
Measurements and derivations:
    /3 alpha
    /2 beta
    /4 a
    /2 b
    /2 c
    /3 psi
    /20 Total
Comparison:
    /3 Plot calculated and measured Vo(t) and V1(t) vs. t on same axes
    /2 Explain differences
    /4 Plot calculated and measured spirals
    /1 Explain
    /5 Compare calculated and measured alpha, beta, a, b, c, and psi,
       and explain differences
    /15 Total
Conclusions:
    /1 Validity of Models (Inductor model, etc.)
    /1 Effectiveness of analysis procedure and methods
    /3 Discretion of TA for good conclusion
    /5 Total
      /70 Grand Total (without communication score)
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