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- 8** **Communication**
- IEEE single column, double spaced format (–5 pts if not used)
 - 1 Style (written in the style of article, rather than stand-alone figs. and tables)
 - 1 English (grammar, punctuation, and etc.)
 - 1 Clarity (purpose of each section clearly explained)
 - 1 Succinctness and precise wording (detailed information in as few words as possible)
 - 1 Organization (ease of locating figures/code/equations/etc.)
 - 1 Section numbers and headings (use section numbers shown below)
 - 1 Equations explained (at least one sentence between equations)
 - 1 Figures complete (every figure numbered, captioned, and referred to in text)
- 1** **Abstract** (succinct summary of report, including technical results as appropriate)
- 2** **I. INTRODUCTION**
- 1 Motivation for lab [explore LED i vs v]
 - 1 State report organization
- 1** **II. METHODS** (Construction of LED Power Indicators)
- 1 Description of LED circuits, (including Fig. 3a of Lab 1a or similar)
- 7** **III. LED POWER INDICATOR CIRCUITS**
- A. *Measurement of voltages*
 - 1 Description of LED circuits, (including Fig. 3b of Lab 1a or similar)
 - 1 Table I: Parts List for LED Circuits
 - 1 Table II: +12V Power Indicator Circuit Voltages
 - B. *Calculation of Current in Resistor and LED*
 - 1 Description of how LED current calculated using Ohm's law
 - 1 Table III: LED Current and Voltage
 - C. *Plot of Current versus Voltage in LED*
 - 1 Discussion of plot and its nonlinear shape versus Ohm's law
 - 1 Accurate plot of LED current vs voltage with all labels (use computer to draw)
- 1** **CONCLUSION** (summary of key results, including numerical values as appropriate)

/20 Total