LABORATORY PROJECT NO. 2
Report Grading

25 Communication
5 Clarity of style (ease of reading, and etc.)
4 Organization (ease of locating figures/code/etc)
4 English (grammar, punctuation, and etc.)
4 Section numbers and headings (use section numbers shown below)
4 Equations explained (at least one sentence between equations)
3 Figure titles and numbers
5 Matlab listings and comments (put in appendices)
5 Abstract (succinct summary of numerical results)

5 1. Introduction (motivation for lab, overview of report organization)

10 2. Design of the Astable Multivibrator
5 2.1. Selection of $R_1$ and $R_2$
5 2.2. Selection of $R_3$ and $C_1$

15 3. Construction and Testing of Astable Multivibrator
3 3.1 Measured Component Values
3 3.2 Square Wave Frequency
4 3.3. Predicted and Measured $C_1$ and $v_o$ Waveforms
3 3.4. Measured Value of $R_4$
2 3.5. Flashing LED Rate

10 4. Measurement of Visual Fusion Rate
4 4.1. Critical Fusion Frequency
3 4.2 LED Voltage
3 4.3 LED Current

15 5. Design and Construction of LED Circuit
2 5.1. Equation for $v_1$ Before LED Turns On
2 5.2. Equation for $v_1$ After LED Turns On
3 5.3. Sketch of $v_1$ vs Time
3 5.4. Sketch of $i_{LED}$ vs Time
2 5.5. Calculation of Potentiometer Setting
1 5.6. Plot of $v_1$ vs Time
2 5.7. Plot of $i_{LED}$ vs Time

10 6. Measurement and Analysis of Peripheral Visual Perception
4 6.1. Perceived LED Flash Rate for Central Field of View
3 6.2. Perceived LED Flash Rate for Peripheral Vision
3 6.3. Sketch of Peripheral Vision Response Waveform

5 6. Conclusion (summary of key results, including numerical values)