

# Project 2: EMG Reflex Assignment (EMG)

BIOE 385 Bioinstrumentation Laboratory

## Written Report Rubric

**Student Name:**

**Student Name:**

**Total Grade:** \_\_\_\_/40

**Student Name:**

### User manual - summary and description of project (4 points total)

- Explanation of device goals and function \_\_\_\_/1
- Physiological relevance \_\_\_\_/1
- Brief summary of equipment/technology used \_\_\_\_/1
- Positive features ("selling points") of the device \_\_\_\_/1

### User manual - instructions (12 points total)

- Instructions are well formatted and easy to follow \_\_\_\_/3
- Instructions are comprehensive, including: hardware setup, subject prep, and test procedure \_\_\_\_/3
- Helpful/correct pairing of text and figures \_\_\_\_/2
- Includes a section on safety \_\_\_\_/2
- Describes common troubleshooting steps \_\_\_\_/2

### Technical specifications (14 points total)

- Summary of device goals and function, including metrics for successful design \_\_\_\_/2
- Correctly annotated circuit drawings AND LabVIEW code \_\_\_\_/3
- Description of expected signals (amplitude, frequency) \_\_\_\_/2
- Circuits characterized appropriately (i.e. Bode plots) \_\_\_\_/2
- Justification of hardware AND software design \_\_\_\_/3
- Challenges of interfacing living and nonliving systems described \_\_\_\_/1
- Device limitations and future improvements described \_\_\_\_/1

### Figures (4 points total)

- Appropriate resolution, brightness, and contrast \_\_\_\_/1
- Figure sizes are appropriate and consistent \_\_\_\_/1
- Figures are well-explained with captions and/or in text \_\_\_\_/1
- Figures highlight relevant information (labeling, cropping, highlighting) \_\_\_\_/1

### Format, grammar, readability (6 points total)

- Table of contents with page numbers (and appendix, if applicable) \_\_\_\_/1
- Informative headings are used \_\_\_\_/1
- Concise sentences and accurate language \_\_\_\_/2
- Grammar, spelling, and punctuation \_\_\_\_/1
- Consistent numbering, capitalization, font size, bullets, etc. \_\_\_\_/1