

Project 2: EMG Reflex Assignment (EMG)

BIOE 385 Bioinstrumentation Laboratory

Written Report Rubric

Student Name:

Student Name:

Total Grade: ____/50

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 (14 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 ____/3
- Describes common troubleshooting steps ____/3

Technical specifications (18 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) ____/3
- Justification of hardware AND software design ____/3
- Challenges of interfacing living and nonliving systems described ____/3
- Device limitations and future improvements described ____/2

Figures (6 points total)

- Appropriate resolution, brightness, and contrast ____/2
- Figure sizes are appropriate and consistent ____/1
- Figures are well-explained with captions and/or in text ____/2
- Figures highlight relevant information (labeling, cropping, highlighting) ____/1

Format, grammar, readability (8 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 ____/2
- Consistent numbering, capitalization, font size, bullets, etc. ____/2