*ECE 1000 Final Report: Insert Project Title Here*

1st Project Lead Given Name Surname, 2nd Group Member, 3rd Group Member, 4th Group Member, 5th Group Member  
line 2: *dept. name of organization (of Affiliation)*  
line 3: *name of organization (of Affiliation)*line 4: City, Country  
line 5: email addresses of all students

*Abstract*—This section is a short summary of the project report or research article that you are writing. In the abstract, you want to say the name of the project, why you are doing it, and summarize the results. Also, we put keywords below to help researchers easily look up academic articles and papers that are relevant to their research. The following are examples of what could be used for the Wireless Power Transfer circuit from class.

Keywords—Inductive Power Transfer, Wireless Power Transfer, Joule Thief, Magnet Wire, Center-Tapped

# Introduction

This section is a short introduction to the final project that your team is working on. In the introduction, state the project's motivation (why you chose this project and why is it important?) and the names and majors of the team members. Finally, set up a transition to the next section, which will be the background information of the project.

# Background

First, we normally begin a report by talking about what sources and literature we used to develop the project. For example, in this section you would state what articles, journals, forums, YouTube videos, or people you used to help formulate your code and overall process for the project. Please cite all your sources; plagiarism is a serious concern, and as engineers, we must always give credit where credit is due! Also, these sources might be useful for you in the future, so please make sure to note where your team drew information.

# Project Description and formulation

In this section, we talk readers through how the project works. Explain all wiring for the project (i.e. what pins are you using on the Raspberry Pi Pico and how do they connect to your sensors?) Also, attach a simple circuit diagram for your project (this can be made in LTSpice, TinkerCAD, or a block diagram software). Also, explain how your code works and why you decided to use certain methodologies. Finally, insert a picture of your full system (for the robot arm ... show the arm, the Raspberry Pi Pico, joystick, and any other materials).

# IV. Discussion and results

In this section, we discuss the results of the project. Also, discuss things that your team would change if they were to continue working on the project (future improvements). Also, state what your team enjoyed about the project. Finally, state the tasks completed by each team member (who did what?).

# V. Conclusion

In this section, we conclude the report by restating the purpose of the project, the skills acquired, and the results.

##### References

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3. I. S. Jacobs and C. P. Bean, “Fine particles, thin films and exchange anisotropy,” in Magnetism, vol. III, G. T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271–350.
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5. R. Nicole, “Title of paper with only first word capitalized,” J. Name Stand. Abbrev., in press.
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7. M. Young, The Technical Writer’s Handbook. Mill Valley, CA: University Science, 1989.