

# **ELE 401 - GRADUATION PROJECT I SECOND INTERIM REPORT**

**HACETTEPE UNIVERSITY  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**GROUP NAME (Optional)**

**PROJECT TITLE:** (The title of the ELE 401 – ELE 402 project)

**PROJECT GROUP MEMBERS:** (The names of the students who work together in the same project group)

**PROJECT SUPERVISOR:** (Academic title and name of the supervisor)

**SUBMISSION DATE:**

FALL 2016-2017

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# 1. INTRODUCTION

This report template aims to help the students prepare their second interim report for the ELE 401 Graduation Project I course. The students are required to follow the exact formatting of page setup, page, section and subsection numbering, referencing, tables and figures as given in this template, as well as the specific instructions regarding the content of the report. The grading of this report will be both over style and content. This report must be submitted by the **end of the 10th week** of the semester.

The report, along with its attachments should be printed one-sided and punched and placed in a soft binder. The electronic copy of this submission should also be sent to the project supervisor in a single pdf file through e-mail. The pdf file should be named in the format as:

**ELE401\_semesteryear\_IR2\_groupname or studentname.pdf**

***Example:* ELE401\_Fall2016\_IR2\_GroupAlpha.pdf (for group projects)**

**ELE401\_Fall2016\_IR2\_CanYazar.pdf (for individual projects)**

In this section, briefly describe the project, and what is in this report.

# 2. METHODS

To achieve the goal of the project, there must be more than one approaches or methods.

In this section,

- Describe each of the methods or the approaches.
- Present a discussion of the type of goal and methods
- Describe each method in a subsection in detail.
- Present the advantages and disadvantages of each method.
- Give citations when you use references for each method.

## 2.1.METHOD 1 (YOU MAY REPLACE WITH THE NAME OF THE METHOD)

Explain the first method in detail. Explain advantages and disadvantages. Use references. Use figures when necessary.

## 2.2.METHOD 2 (YOU MAY REPLACE WITH THE NAME OF THE METHOD)

Explain the second method in detail. Explain advantages and disadvantages. Use references. Use figures when necessary.

### 3. PRELIMINARY DESIGN

Based on the methods provided in the previous section,

- Choose one of the methods, and explain the reasoning behind your choice.
- Provide a preliminary design using the chosen method. Use figures, flow charts, etc. in order to describe the preliminary design.
- Clearly identify the parameters and design choices in the preliminary design. At this stage, you do not need to determine the value of the parameters. You do not need to make design choices. However, you do need to identify what the parameters and design choices are.

### REFERENCES

(When a reference, such as a book [1-2], handbook [3], report [4], journal [5], or conference paper [6], or any other document is cited in the text, it should be properly listed in the References section. Use the [IEEE Citation Reference](#) format.)

- [1] J. K. Author, "Title of chapter in the book," in *Title of His Published Book*, xth ed. City of Publisher, Country if not USA: Abbrev. of Publisher, year, ch. x, sec. x, pp. xx–xx.
- [2] B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA: MIT Press, 1986.
- [3] *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, 1989.
- [4] J. H. Davis and J. R. Cogdell, "Calibration program for the 16-foot antenna," *Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL-006-69-3*, Nov. 15, 1987.
- [5] R. E. Kalman, "New results in linear filtering and prediction theory," *J. Basic Eng.*, ser. D, vol. 83, pp. 95-108, Mar. 1961.
- [6] C. Berrou, A. Glavieux, and P. Thitimajshima, "Near Shannon limit error-correcting coding and decoding: Turbo-codes. 1," in *Proc. Int. Conf. Commun.*, Geneva, Switzerland, May 1993, pp. 1064–1070.