

CALIFORNIA STATE UNIVERSITY, CHICO
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

EECE 389: Internship in Electrical and Computer Engineering

Instructor: Dr. Adel A. Ghandakly

Course Requirements and Process

Catalog Description:

This internship is offered for 1.0-3.0 units. Students must register directly with a supervising faculty member.

Course Objectives:

- gain practical experience solving engineering problems
- develop practical engineering skills
- understand the importance of developing solutions that satisfy customer/user needs

Course Outcomes: Students shall be able to:

- develop a solution to a practical problem
- meet an employer's project expectation

Course Requirements and Process:

1. Course Proposal (up to 2 pages, excluding cover page)

See course proposal form and guidelines below.

2. Course Final report (up to 10 pages, excluding cover page)

Prior to the last day of the semester classes, a final report must be submitted to the supervising faculty, including Company Description, Job Description – Duties, technical description of daily activities, projects worked on, Educational benefits (Lessons learned, applicability to degree program), Evaluation letter – From the student's immediate supervisor, describing the student's aptitude and overall proficiency in internship activities.

See course Final Report description below.

CALIFORNIA STATE UNIVERSITY, CHICO
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

Internship in Electrical and Computer Engineering

Course Proposal

Student _____

ID # _____

Course Number: EECE 389 Unit Value _____

Semester/Year: _____

Company: _____

Address: _____

Dates of Employment: _____ to _____

Hours per week: _____

Job Title: _____

Duties: _____

Name of Company Supervisor: _____

Internship Project Title and Description:

- Attach Project Proposal (Guidelines <http://www.ecst.csuchico.edu/ece/courses/eece389.pdf>)
 - Include a project support statement by the student's immediate supervisor
 - Final Report (<http://www.ecst.csuchico.edu/ece/courses/eece389.pdf>) due last day of semester classes
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Student's Signature

Date

Approvals:

Supervising Faculty Member

Department Chair

Proposal Guidelines

Cover Page

Executive Summary: Present a concise description of the **entire** project.

Introduction: Provide a brief background on the client, their products/services, and the project itself. In addition, present information to acquaint a **new** reader with the problem and the purpose/motivation for carrying out the objectives of the project.

Project Objectives: State clearly what you are proposing to accomplish in this project.

Project Team: State who the members of the group are and what their roles are.

Design and Analysis: This is the most important segment of this report. This section must include:

- Processes for problem identification and refinement.
- Steps taken to identify the solution.
- Decision making process leading to the solution that is being pursued.
- Details on design and analysis including any system analysis, engineering analysis, components and materials selection, drawings generated, route sheets for fabrication, etc.
- Current status of the design
- Activities planned for the rest of the term to successfully accomplish project objectives.

Project Deliverables: State clearly what you envision as the deliverables when the project is completed.

Summary: Present a summary assessment on the current state of the project.

Timeline: A complete time line showing the various steps/activities completed and those that are planned to be completed.

References: A list of references using appropriate and complete citations whether the citations are books, emails, web site information, etc.

Appendices: (if needed) Present in this section information supplementary to the main body of the report including drawings, tables, figures, and equations.

Final Report

General Guidelines for Writing the EECE 389 Project Final Reports

A. The written report should consist of the following parts:

1. Cover Page
2. Table of Contents
3. Abstract
4. Introduction
5. Narrative
6. Conclusion
7. Appendices
8. References

B. Cover Page:

1. State that it is an: EECE 389 Final Report
2. Give the title of the report.
3. Name of the Company supervisor.
4. Name of the faculty advisor, and the submission date.

C. Table of Contents: Should list sections of the report and the page numbers.

D. Abstract: Should:

- a) Be brief and concise.
- b) No longer than 100 words.
- c) State the problem or objective.
- d) Give a summary of the results or conclusion.
- e) Mention methods and details of significance.

E. Introduction:

1. Familiarize the reader with the subject matter.
 - Provide a background search and Cite references
2. State what distinctive about your approach.

F. Narrative:

1. Describe in detail what you have done.
2. Write in the third person.
3. Write in text format.
4. Present supportive data in tables and figures.

G. Conclusions:

1. Summarize the goals of project and how well you accomplished them.
2. Mention possible future work related to your project.

H. Appendices:

1. Material that is not required to be able to follow the narrative section.
 - a) Details of equation development.
 - b) Software programs.

I. References:

1. Number consecutively.
2. Use the following formats
 - a) Periodical:

Adel A. Ghandakly, Sukumar Kamalasan, "A Neural Network Parallel Adaptive Controller for Dynamic Systems Control", IEEE Transactions of Instrumentation and Measurement, Vol. 56, No.5, pp 1786-1796, October 2007.
 - b) Book:

W. Edison, "Vacuum Tube Oscillators," John , Wiley and Sons, Inc., New York, NY, pp. 170-171, 1948.