

Section 1

ME 195 A/B

Forms and Samples

Project Proposal

Each group in collaboration with the faculty advisor and industry sponsor, if any, is to develop a one-page proposal outlining the specific activities required including deliverable.

Be sure to follow the format and example provided over the next page, to prepare your project proposal.

Project Proposal Format

Title :
Industry Sponsor :
Address :
Industry Mentor : Name and Address
Tel#:
Fax#:
E-mail:

Faculty Advisor : Name
Tel#:
Fax#:
E-mail:

Student Team Member : 1. (Manager) Tel#: Email:
2. Tel#: Email:
3. Tel#: Email:

Project Scope :
Project Objectives :
Deliverables :
Timetable :
Available Resources :
(Facilities & Funding)

Approval Signatures : Date:
Students : 1.
2.
3.

Faculty :
Industry Mentor :

Monthly Progress Report

Each group is expected to provide monthly reports informing their advisor and industry sponsor of their activities and progress through out the semester.

See the format and an example of such report over the next pages.

ME 195 Monthly Progress Report Format

Course No. and Title :

Project Title :

Student Team Member: 1. (Manager) Tel#: Email:

2. Tel#: Email:

3. Tel#: Email:

etc.

Report Period :

Accomplishments :

Problems Encountered :

Solutions Implemented/Proposed:

Future Activities (next 4 wks):

Student Team Contribution:

	<u>Student Name</u>	<u>Task Performed</u>	<u>Hours Contributed</u>
1.	(Manager)		
2.			
3.			
etc.			

Monthly Progress Report Sample (2 pages maximum)

Course No. and Title : ME195B, Senior Design Project
Project Title : Catheter Tipping and Trimming Machine
Student Team :
 1. Cuong Tran (Manager) Tel#: (408) 259-5426
 2. Kim Lien Dang Tel#: (408) 247-2977
 3. Thanh Dinh Tel#: (408) 929-1484
 4. Dung Phung Tel#: (510) 429-9556

Report Period : 3/15/98-4/15/98

Accomplishments :
 ✍ Completing PLC programming to control the electrical and pneumatic system.
 ✍ Completing the control box with its electrical and pneumatic schematics.
 ✍ Completing the combination of two mechanisms into one mechanism to perform both functions.
 ✍ Completing the tests of the catheters before making a final decision.
 ✍ Completing running tests of tipped and trimmed catheters with high yield: 95%.
 ✍ Completing the final demonstration with help of Advisor Professor Barez and Mentor President Danise.

Problems Encountered: Unsuccessful in achieving the expected result: 98% yield.

Solutions Implemented/Proposed:

- ✍ Modify mechanism linkage length (Tran 20APR98)
- ✍ Re-run yield tests (Dinh 22APR98)

Future Activities (next 4 wks):

- ✍ Finish drawings, schematics and documents (Phung 25APR98)
- ✍ Prepare for the final presentation (all 05MAY98).
- ✍ Finishing the final report (all 05MAY98).
- ✍ Etc., etc... (**Owner date_task_complete**)

Student Team Contribution:

<u>Students name</u>	<u>Task Performed</u>	<u>Hours Contributed</u>
1. Cuong Tran (Manager)	Test of catheters/control box design (Provide some details)	24hrs
2. Kim Lien Dang	PLC programming	22hrs
3. Thanh Diah	Combined 2 mechanisms into one (Provide some details)	23hrs
4. Dung Phung	Ran tests of tipped and trimmed catheters. (Provide some details)	25hrs

Single-Page Project Summary

Each group is required to prepare a one-page summary of their project. This summary includes:

- Title
- Project Scope and Objective
- Project Results
- Sponsor
- Faculty Advisor
- Student Team Members

Be sure to include a 'clear' photo or drawing of your project to fit in a "3x3" space in the lower right hand side of the page as shown on the following page.

This summary is required and due to your advisor by May 1 for inclusion in the 'Senior Design Project Summary ' booklet available on the 'Engineering Conference Day'.

Single-Page Project Summary Format

Title:

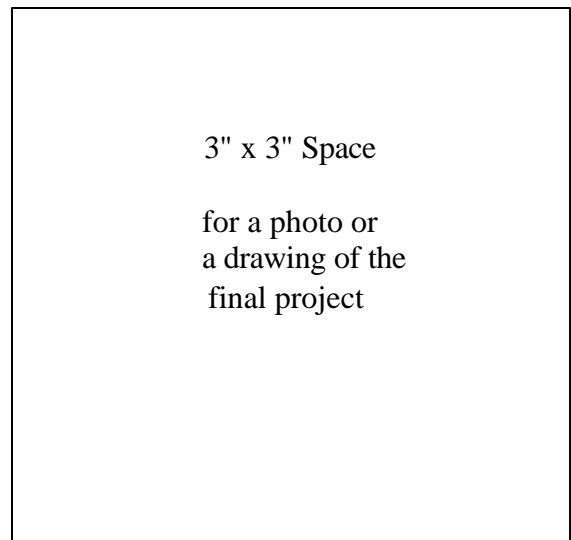
Project Scope and Objectives:

Project Results:

Sponsor:

Faculty Advisor:

Student Team Members:



Inverted Pendulum Project Summary

Title: Fuzzy Logic Control of an Inverted Pendulum/Crane System

Project Scope and Objectives:

1. Design and fabricate system components for sustaining of an inverted pendulum. This includes designing for cost and minimization of friction within the system for ease for pendulum motion.
2. Design an algorithm that is capable of sustaining the pendulum in the upright position.
3. To maintain pendulum in the inverted position with minimum oscillation.

Project Results:

1. All hardware components have been designed, fabricated and assembled.
2. Computer simulation to test system dynamics and controller algorithm is completed.
3. Controller algorithm and state variables defining system behavior has been created.
4. Testing and implementation of Analog/Digital converter communication card has been completed.
5. Program interface between hardware feed back and controller has been completed.

Sponsor: Mechanical & Aerospace Engineering Department, San Jose State University

Faculty Advisor: Dr. Addisu Tesfaye

Student Team Members:

1. Mike Lau
2. Clayton Young
3. Alan Yu

Senior Design Project Expense Reimbursement

Projects not supported by industry are eligible for some reimbursement of expense incurred related to their activity.

This amount is limited to \$50 per student in each group and to be paid for materials purchased only.

The form on the next page may be copied for reimbursement purpose.

Fill out the form completely and submit along with all original receipt. Receipts are to be attached to an 8 1/2"x11" sheet of paper.

ME 195A/B Senior Design Project Expense Reimbursement Form

Semester : _____

Project Title : _____

Faculty Advisor : _____

Student Member : _____

Project Start Date : _____

Please answer questions in one area A, B, or C below:

A-Project Sponsored by Industry: Yes _____, No _____
Industry/Company Name: _____
Amount Contributed by Company: _____

B-Project Sponsored by ME faculty: Yes _____, No _____
Is this project a laboratory hardware: Yes _____, No _____
Which laboratory will be located at: _____

C-Project is of own personal interest: Yes _____, No _____
Who sponsored this project? _____
Amount of financial support provided? _____

Amount Spent: _____

Amount Requested: _____

Requester's Name: _____, Social Security No: _____
Address: _____

Requester's Signature: _____

Faculty Approval: _____

Sr. Project Director Approval: _____

Amount Requested may not exceed no. of students x \$ 50.00

Reimbursement Amount Authorized: _____