

# SENIOR DESIGN PROPOSAL

State University of New York at New Paltz / Department of Electrical and Computer Engineering

To be completed by the student(s)

Please type in this template     Fall             Spring             Summer    20\_\_\_\_\_

## I. Select a project supervisor or supervisors (Check appropriate boxes)

	Supervisor	Area of Expertise
	Ghader Eftekhari	Electronics and devices.
	Julio J. González	Control systems, analog circuits, computer-assisted teaching.
	Baback Izadi	Digital systems, computer architecture, microprocessor systems.
	Hassan Kalhor	Antennas, microwaves, power, electromagnetic scattering.
	Ying Lin	Communication systems, digital signal processing.
	Michael Otis	Optical Engineering. Embedded systems, computer communications (networks).
	Damodaran Radhakrishnan	Digital system design, low power design, microprocessor-based design.
	Faramarz Vaziri	Communication systems, digital signal processing.
	Mohammad Zunoubi	Electromagnetics, microwaves, antennas.

## II. Select a Team (Check appropriate boxes)

	Team Work <input type="checkbox"/>		Individual Work <input type="checkbox"/> (See part II-b)
	Industrial Team <input type="checkbox"/> (See part II-a) Company:	Department Team <input type="checkbox"/>	
Student's name (& position if applicable)			
Name and rank of highest rank person in the team			

**II-a. Agreement of supervision by Department Faculty**

(To be completed by highest rank person in an Industrial Team)

**Substance of this form:** A design project executed by a student or students in an industrial team as part of a permanent job, Co-op, or internship, can be considered as a senior design project. However, in this case there must be a written agreement between the industry supervisor and the faculty supervisor clearly providing the latter adequate supervision of students working in the project in all academic-related issues.

It is made clear that the purpose of this form is not to interfere by any means with the relationship employer/employee existing between the Company and the students working in it. Specifically, the purpose of the form is to assign a faculty member(s) supervision and control of the student or students working on the project specifically in reference to the compliance of all academic procedures stated in the Senior Design 1 and 2 syllabi.

***Senior Design Teamwork Waiver Form***

*To the Chair of the Department of Electrical and Computer Engineering:*

I \_\_\_\_\_ agree that \_\_\_\_\_ and \_\_\_\_\_  
Name and Rank Name Name

will have full control and supervision of the students working in this Senior Design Project as regards the procedures stated in the Senior Design 1 and 2 syllabi.

\_\_\_\_\_  
Date

**II-b. Waiver from working in a Team** (To be completed only by a student working individually)

**Substance of this form:** One of the department's objectives is to provide students with teamwork experience. This objective is initially accomplished through laboratory sessions and course design projects. It is highly desired and strongly encouraged that this teamwork experience culminates with the senior design project. Consequently, a waiver from working in a team will be assigned only in extremely well justified cases.

***Senior Design Teamwork Waiver Form***

*To the Chair of the Department of Electrical and Computer Engineering:*

I \_\_\_\_\_, request a waiver from working as a  
Team Member on my Senior Design Project.

**Reason for waiver:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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*Student's Signature*

*Date*

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To be completed by Chair

Waiver [ ] Granted

[ ] Denied

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*Chair's Signature*

*Date*

**III. Select, describe and plan the project topic**

Describe the proposed design topic and clearly state the design objectives following the guidelines below:

(a) Describe briefly your design topic:

***Explain succinctly what your project is about and what the final product will be***

(b) ***In order for your proposal to be accepted***, the design topic must include ***at least four*** of the following seven realistic engineering constraints (Check at least 4 boxes):

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Economic             | <input type="checkbox"/> Environmental | <input type="checkbox"/> Sustainability    |
| <input type="checkbox"/> Manufacturability    | <input type="checkbox"/> Ethics        | <input type="checkbox"/> Health and Safety |
| <input type="checkbox"/> Social and Political |  |  |

***Explain how your project is going to address the constraints marked above***

(c) Consider all relevant engineering standards that apply to your selected project topic.

***Identify the standards and explain how your project is going to take them into account***

(d) Plot a tentative work schedule. Draw a timetable (Gantt Diagram) for your entire project.

Task	Semester 1				Semester 2			
	Month 1	Month 2	Month 3	Month 4	Month 1	Month 2	Month 3	Month 4

#1								
#2								
#3								
#4								

**IV. Identify contributions of each member of the team**

Identify the project sub-topics, responsibilities and contributions expected from each team member.

<b>Team member(s):</b>			
<b>Major:</b>			
<b>Project Sub-Topic:</b>			
<b>Responsibilities/ Contributions:</b>			

*Recommended by:*

Senior Design Faculty Advisor: \_\_\_\_\_

Date: \_\_\_\_\_

Department Chairperson: \_\_\_\_\_

Date: \_\_\_\_\_

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