

CEN492 – Graduation Project Proposal

Adviser's Name:

Project Title:

Problem Description:

Write a brief high-level description of the project without specifying any design choice or implementation approach. The graduation project must meet the following minimum requirements:

1. It must include a major system design with a degree of integration of hardware and software components¹.
2. It must provide a computer-based solution for an open-ended, real-world problem.
3. It must provide a tangible practical, hands-on experience.
4. It should have an interdisciplinary aspect.

¹ Research projects are not accepted as graduation projects. For examples, modelling and simulation of existing systems and survey-based projects are not accepted.

Customer Requirements (Needs):

- Write an enumerated list of customer requirements which are short statements of the high-level needs of the target product/system that only express what the product/system should do, NOT how it is done.
- Do not write specific engineering or implementation requirements; these should be developed later by the students in the first phase of the project ².

Relation to the Computer Engineering Program:

The project must be related to at least one course in the Computer Engineering program. Check all courses that are closely related to the project area.

CEN211 Digital Logic Design I	CEN402 Introduction to Random Processes
CEN212 Digital Logic Design II	CEN413 Computer Architecture II
CEN316 Computer Architecture	CEN414 Programmable Logic Devices
CEN318 Embedded Systems	CEN416 Introduction to Computer Arithmetic
CEN351 Signals and Systems Analysis	CEN443 Wireless & Sensor Networks
CEN352 Digital Signal Processing	CEN445 Network Protocols & Algorithms
CEN341 Data Communication	CEN446 Network Design & Management
CEN441 Computer Networks	CEN454 Intelligent Systems
CEN442 Computer and Network Security	CEN459 Robotics
CEN415 Introduction To VLSI Design	CEN460 Digital Speech Processing
CEN453 Digital Control & Robotics	CEN465 Digital Image Processing

² For examples of valid customer requirements, refer to the project's report template.