

Name Design Document Rubric

Description A rubric for evaluating the senior project's design document.

Rubric Detail

Criteria	Levels of Achievement			
	Proficient	Competent	Apprentice	Novice
Problem Definition Weight 20.00%	80 to 100 % (1) Well-defined problem. (2) Accurate, comprehensive, and sufficiently specific user requirements and technical specifications.	50 to 80 % (1) Well-defined problem. (2) Accurate user requirements and technical specifications that cover most aspects of the system.	20 to 50 % (1) Adequately-defined problem. (2) User requirements and technical specifications cover only some aspects of the system.	0 to 20 % (1) Poorly-defined problem. (2) Insufficient user requirements and technical specifications: meeting the stated requirements and specifications does not solve the stated problem.
System Design Weight 50.00%	80 to 100 % (1) System architecture: list/diagram of all major system components with appropriate abstraction. (2) Clear assignment of system functions to system components, covering all system functions. (3) Identify hardware vs. software components. (4) Discuss and justify all design decisions and the involved tradeoffs. (5) Specify inter-component interfaces: physical, protocols, APIs, etc.	50 to 80 % (1) System architecture: list/diagram of most major system components, with mixed levels of abstraction. (2) Most system functions are assigned to specific system components. (3) Identify hardware vs. software components. (4) Discuss and justify some design decisions. (5) Specify some form of inter-component interfaces.	20 to 50 % (1) System architecture: list/diagram of some system components. Some major components are missing. (2) Some main system functions are not mapped to any system components. (3) Unclear designation of hardware vs. software components. (4) Superficial discussion of design options. Unconvincing justification of design choices. (5) Too generic specification of inter-component interfaces.	0 to 20 % (1) System architecture: non-representative, or missing, list of abstract system components. (2) Unclear assignment of system functions to specific system components. (3) No design options are considered. (4) Inter-component interfaces are not specified.

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Progress and Documentation Weight 15.00%	80 to 100 % (1) Made sufficient progress so far to complete the project in time. (2) Work is well-documented. Document paints a clear picture of the project progress.	50 to 80 % (1) Progressing slowly. Need to pick up the pace to complete the project in time. (2) Work is partially documented. Document is incomplete, and leaves many questions unanswered.	20 to 50 % (1) Noticeably behind schedule. Completing the project is questionable. (2) Document barely describes the project status.	0 to 20 % (1) Completing the project appears to be infeasible. (2) Document is unable to describe the project status.
Technical Writing Weight 15.00%	80 to 100 % (1) Well-structured document. (2) No grammar, spelling, or punctuation mistakes. (3) Clear presentation of ideas.	50 to 80 % (1) Well-structured document. (2) Few grammar, spelling, or punctuation mistakes. (3) Understandable presentation of ideas.	20 to 50 % (1) Awkward document structure. (2) Noticeable grammar, spelling, or punctuation mistakes. (3) Vague presentation of ideas.	0 to 20 % (1) Illogical document structure. (2) Frequent grammar, spelling, or punctuation mistakes. (3) Confusing presentation of ideas.

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