Name	Final Report Rubric
Description	A rubric for evaluating the senior project's final report.
Rubric Detail	

Levels of Achievement

Criteria	Proficient	Competent	Apprentice	Novice
Problem Definition	**4 Points** (1) Well-defined problem. (2) Accurate, comprehensive, and sufficiently specific user requirements and technical specifications.	**3 Points** (1) Well-defined problem. (2) Accurate user requirements and technical specifications that cover most aspects of the system.	**2 Points** (1) Adequately-defined problem. (2) User requirements and technical specifications cover only some aspects of the system.	**1 Points** (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	**4 Points** (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.	**3 Points** (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) Describe the design of	**2 Points** (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.	**1 Points** (1) System architecture: non-representative, or missing, list of abstract system components. (2) Unclear assignment of system functions to specific system components. (3) No description of the design of custom components.

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	(4) Describe the design of each custom component. (5) Disucss and justify all design decisions and the involved tradeoffs. (6) Specify inter-component interfaces: physical, protocols, APIs, etc.	most custom components. (5) Discuss and justify some design decisions. (6) Specify some form of inter-component interfaces.	(4) Unclear description of the design of custom components. (5) Superficial discussion of design options. Unconvincing justification of design choices. (6) Too generic specification of inter-component interfaces.	(4) No design options are considered. (5) Inter-component interfaces are not specified.
Implementation, Testing, and Debugging	**4 Points** (1) Full implementation details are provided. (2) Testing methodology, results, and degugging techniques are described.	**3 Points** (1) Some implementation details are missing. (2) Limited information on testing and debugging techniques.	**2 Points** (1) Many implementation details are missing. (2) No information on testing or debugging.	**1 Points** (1) No evidence of a system implementation.
Engineering Tools and Standards	**4 Points** (1) Various engineering tools and standards were considered, evaluated, and some were chosen based on clear criteria. (2) Established tools and standards are preferred over custom solutions.	**3 Points** (1) Some engineering tools and standards were used without evaluating existing alternative tools and standards. (2) Established tools and standards are preferred over custom solution.	**2 Points** (1) Some engineering tools and standards were considered, but non were used. (2) No preference is given to established engineering tools or standards.	**1 Points** (1) No engineering tools or stanards were considered.

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	Proficient	**Competent**	**Apprentice**	**Novice**
Technical Writing and Documentation	**4 Points** (1) Well-structured document. (2) No grammer, spelling, or punctuation mistakes. (3) Clear presentation of ideas. (4) Work is well-documented. Document paints a clear picture of the work involved in the project. There is enough documentation to repreouce the system implementation.	**3 Points** (1) Well-structured document. (2) Few grammer, spelling, or punctuation mistakes. (3) Understandable presentation of ideas. (4) Work is partially documented. Document is incomplete, and leaves some questions unanswered. There is enough documentation to reproduce most parts of the system implementation.	**2 Points** (1) Awkward document structure. (2) Noticeable grammer, spelling, or punctuation mistakes. (3) Vague presentation of ideas. (4) Document barely describes the work involved in the project, and leaves many questions unanswered. It's unclear whether there is enough documentation to reproduce the system implementation.	**1 Points** (1) Illogical document structure. (2) Frequent grammer, spelling, or punctuation mistakes. (3) Confusing presentation of ideas. (4) Document is unable to describe the work involved. Documentation is insufficient to reproduce the system implementation.

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