

Homework 9: Software Design Considerations					
Section	Description	Max	Poor	Good	Excellent
			0-2 / 0-5 / 0-14	3-4 / 6-8 / 15-24	5 / 9-10 / 25-30
1	Introduction	5	Introduction of product too brief, or missing. Little or no discussion about software design issues.	Short introduction of product. Mentions the report topic.	Short introduction of product. Notes important software issues to be discussed in the report.
2	Software Design Considerations	30	Not included or lacking in multiple areas.	Has most of the parts for an "Excellent", but lacking in 1-2 areas.	Design considerations guiding development of software discussed. Discusses: Memory mapping Mapping of external interfaces Utilization of integrated peripherals Organization of application code (interrupt-driven, state machine, polling loop, etc.) Explains rationale for application code choice. Indicates any provisions for debugging or self-tests.
3	Software Design Narrative	30	Omitted to mention or lacking in multiple areas.	Has most of the parts for an "Excellent", but lacking in 1-2 areas.	Illustrates the hierarchical arrangement of various code modules. Describes what each code module does, its purpose and how it works. Indicates completion status of each code modules. References for any commercially available or shareware code modules. Includes links (possibly through the team website) to the source of ported code modules.
4	Summary	5	No summary or summary may be inappropriate.	Discussion of software issues is lacking in summary.	Summary is complete and appropriate but not too long. Summary is concise with no fluff.
5	References	10	No use of IEEE format. References are largely incomplete.	Must use IEEE format. A few references may be missing (1 or 2).	Linked references for necessary code modules. Other references included.
App A	Flowchart/Pseudo-code for Main Program	10	No flowchart. Flowchart is skimpy and lacks important steps.	Flowchart may be lacking components mentioned in the report.	Include a flowchart (or pseudo-code) that depicts the flow/activity of your "main" program
App B	Hierarchical Block Diagram of Code Organization	10	No block diagram. Block diagram of code organization lacking key features.	Block diagram lacking 1-2 features.	Illustrates the hierarchical arrangement of various code modules