## ECE295 Milestone 1 (M1): Technical Design Review

Team ID:	Team Grade: / 70	TA:	
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Attributes	Unsatisfactory	Satisfactory	Good	Outstanding
Technical Desig	· · · ·	v		,
Subsystem Overview Student's interpretation of the subsystem	No overview given or the overview provided is incomplete and/or unclear	Overview is generic or similar to what was provided in the ICD Subsystems' relevance to the desired operation of the SAR is provided	Overview of the subsystem is clear but not concise     Functionality of the subsystem and the importance to the overall SAR functionality is well articulated	As per good +     Overview is concise and specific for the subsystem     Impact of the subsystem to other subsystems within the SAR is clear, concise and specific
Input / Output Signals  Description of the input and output signals for the subsystem	No description is provided for the input and output signals for the subsystem	Inputs and outputs are described as seen in the ICD     Understanding of the inputs and outputs are underdeveloped, suggesting a lack of understanding on how to handle the inputs to generate the outputs	Input and output signals are well described     Understanding of the inputs and outputs is developed, suggesting the team understands how to handle the inputs to generate the expected outputs	As per good +  • Inputs and outputs have incorporated the expected parameters from adjacent subsystems or main board interfaces
Subsystem Design 1. How the input signals are handled 2. How the output signals are generated 3. Key components 4. Schematic	Lacks sufficient detail to understand how the inputs are handled and how the outputs are generated     Design is expressed as a mere laundry list of components     Schematic is incomplete	Provides basic information on how the inputs are handled and how the outputs are generated Component selection / design (RTL) and justifications for those key components is underdeveloped, suggesting an incomplete design Schematic is complete but component description is incomplete	Provides clear, concise and specific details on how the inputs to the subsystem are used to generate the output signals of the subsystem  Key components are highlighted, and the selection criteria is justified to meet the requirements of the subsystem  Schematic is complete	As per good +     Makes a convincing case for the design and component selection using compelling justification of design choices through simulation, calculation or basic testing     Alternate components were reviewed, compared, and ranked to determine the best design that would meet the SAR requirements
Organization 1. Clarity of Structure 2. Paragraph / text design	Poorly organized with information in the wrong places     Poor choice of paragraph types     Paragraphs are internally incoherent	Information appears mostly in a logical order     Structure is present but mostly implicit     Paragraph choice is appropriate     Paragraphs mostly address and expand a single idea	Document is easy to navigate (e.g., contains elements such as headings, labels, captions)     Structure is logical (flows) and explicit throughout     Effective paragraph choice; well-framed	As per good +  • Structure greatly aids understanding and effortless reading  • Well-crafted transitions at the sentence and paragraph level strengthen flow
Design Review	(DR)			
Subsystem Design 1. Completeness 2. Understanding 3. Supporting documentation	Subsystem design is not complete or ready for a design review; significant design decisions remain to be made     Lack of understanding the subsystem and the requirements for the subsystem     OneNote notebook is not used; no clear team documentation	Subsystem design has the major components selected; minor design decisions remain to be made. Full value of a design review cannot be achieved     Subsystem requirements are known but not understood as evidenced by the proposed subsystem design     OneNote notebook has some information, but is not clear or detailed	Subsystem design is complete and ready for a design review     Subsystem requirements are known and understood; the proposed design is feasible and should meet the subsystem requirements     OneNote notebook is well used and information is organized, clear, and shows evidence of teamwork	As per good +     Supporting evidence (i.e. calculations, simulations, real world tests) are summarized and available during the design review     Design is complete and team understands the next steps required to complete the subsystem circuit
Design Review Preparedness 1. Content 2. Organization	Poorly organized with information in the wrong places     Not ready to review schematics, simulations or OneNote notebook material	Information appears mostly in a logical order     Ready to receive questions and react as the design review begins	Information is all logically organized and readily available when needed     Team begins the DR with an overview of the design and the key components. Team guides the design review in a logical manner	As per good +  Team has questions prepared to ask the TA during the design review to confirm design choices and to provide insight from past experience.  Team is not just reactive, but proactive with the DR
Q&A  1. Teamwork  2. Engagement (DR and Design Meetings)	The team doesn't work well together to answer questions or present information. Q&A is dominated by silence or a single team member  Engagement is low in the DR and in previous design meetings	DR is conducted by one or two team members; workload within the meeting isn't equally distributed     Some engagement is seen during the DR and in previous design meetings	DR is conducted by all team members and the workload is equally distributed     Engagement is seen in the DR but hasn't been seen in previous design meetings	As per good +     Engagement has been consistent and high in previous design meetings and continues in the DR     All team members are active in the design process

## Individual Grade: /30

Requirements	Success Criteria			
Vocal delivery	Clearly articulated; audible; natural style of speaking; appropriate pace; minimal verbal fillers			
Team dynamics	Good connection with team; team member remains focused, even when not presenting; aids in creating a sense of team unity in the presentation			
Knowledge	Has a good understanding of the team's design and individual contributions			
Effort	Individual has made clear contributions towards the team's overall effort			
Q & A	Clearly spoken; responds directly and concisely to question			
Student	Comments			
/30				
/30				
/30				
/30				

Greatest Strengths:		
Areas for Improvement:		