For use by the Project lecture	r			Approved	Revision required
Feedback					
			Project number on list of Project concepts remains the project's identifier.	the AMS (thi	ration 10, but cially be your
					T
To be completed by the stude	ent		ļ	Language editor name	Language editor signature
PROJECT PR	OPOSAL 2023	Project no	Revision no		
Title Surname Project title	Initials Student no	Study leader (title,	initials, surname)	Student declaration I understand what plagiarism is and that I have to complete my project on my own. Student signature	Study leader declaration This is a clear and unambiguous description of what is required in this project Study leader signature and date

1. Project description
What is your project about? What does your system have to do? What is the problem to be solved?

	note the use of full	
2. Technical challenges in this project	sentences	
Describe the technical challenges that are <i>beyond</i> those encountered up to the end of third year and in	other final year modules	
	other final year modules.	
2.1 Primary design challenges		
2.2 Primary implementation challenges		
2.21 milary implementation chancinges		
3. Functional analysis	Note that functional units	
3. Functional analysis	Note that functional units are specifically mentioned.	
	Note that functional units are specifically mentioned. This is a requirement.	
3.1 Functional description	are specifically mentioned. This is a requirement.	
	are specifically mentioned. This is a requirement.	
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This functional block diagram is the right idea (contains function in each block and captures signal flow and processing in the system), but should not contain descriptions is each block. The block should simply name the function. Section 3.1 contains the description.

2 Functional block diagram	

The first three requirements are similar to those in the class example. See class notes for more detail on how these were obtained.

4. System requirements and specifications 4

These are the core requirements of the system or product (the mission-critical requirements) in table format IN ORDER OF IMPORTANCE. Requirement 1 is the most fundamental requirement. Requirement 1: the fundamental functional Requirement 2 **Requirement 3** and performance requirement 1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem. 2. What is the target **specification** (in *measurable* terms) to be met in order to Note that the selected achieve this requirement? values in row 2 are MOTIVATED in TECHNICAL TERMS here. **3. Motivation:** how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected) 4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has Always specify the platform for been met? software. A PC platform is almost never allowed in Project. 5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement. 6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none" Note again that library functions are ONLY allowed for low level hardware interfacing

		ways explains how e numerical value cification		Without any other guidance on how to select the size of an allowed error, you may use this rule of thumb in Project: "		
System requirements	and specific	cations page 2		Small error" is 10%. "Very small error" may be taken as 1%.		
	Requirement 4		Require	ement 5	Requirement 6	
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.						
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?					•	
3. Motivation: how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected)	V					
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?						
5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement.						
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"					7	
		This must be explicitly	e indicated	This shou define the student.	ld simply clearly contribution of the	

Comment

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System requirements and specifications page 3

	Requirement 7	Requirement 8	Requirement 9
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.			
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?			
3. Motivation: how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected)			
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?			
5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement.			
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"			

	Requirement 10	Requirement 11	Requirement 12	
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.				
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?				
3. Motivation: how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected)				
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?				
5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement.				
6. What are the aspects <u>to be</u> taken off the shelf to meet this requirement? If none, indicate "none"				

This is from the class

	example		
5. Field conditions			
	IDITIONS under which your project has to work and	has to be demonstrated.	
	Field condition 1	Field condition 2	Field condition 3
Field condition requirement. In which field conditions does the system have to operate? Indicate the one, two or three most important field conditions.			
Field condition specification. What is the specification (in measurable terms) for this field condition?			
	All of this copied from the class example		
6. Student tasks	V		
6.1 Design and imple List your primary design and imp	ementation tasks blementation tasks in bullet list format (5-10 bullets). These are <i>not</i> product requirements, but <i>yo</i>	ur tasks.
6.2 New knowledge	to be acquired		

Describe what the theoretical foundation to the project is, and which new knowledge you will acquire (beyond that covered in any other undergraduate modules).

Note that FULL
SENTENCES are used
throughout. This is a
requirement.