

For use by the Project lecturer	Approved		Revision required	
<b>Feedback</b>				

To be completed by the student						
<b>PROJECT PROPOSAL 2022</b>			Project no		Revision no	
Title	Surname	Initials	Student no	Study leader (title, initials, surname)		
Project title						

Language editor name	Language editor signature
<b><u>Student declaration</u></b> I understand what plagiarism is and that I have to complete my project on my own.	<b><u>Study leader declaration</u></b> This is a clear and unambiguous description of what is required in this project. Approved for submission (Yes/No)
Student signature	Study leader signature and date

<b>1. Project description</b> What is your project about? What does your system have to do? What is the problem to be solved?
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## 2. Technical challenges in this project

Describe the technical challenges that are *beyond* those encountered up to the end of third year and in other final year modules.

### 2.1 Primary *design* challenges

### 2.2 Primary *implementation* challenges

## 3. Functional analysis

### 3.1 Functional description

Describe the design in terms of system functions as shown on the functional block diagram in section 3.2. This description should be in *narrative format*.

### 3.2 Functional block diagram

#### 4. System requirements and specifications

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

## System requirements and specifications page 2

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

## System requirements and specifications page 3

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

## System requirements and specifications page 4

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

## 5. Field conditions

These are the REAL WORLD CONDITIONS under which your project has to work and has to be demonstrated.

	Field condition 1	Field condition 2	Field condition 3
<b>Field condition requirement.</b> In which field conditions does the system have to operate? Indicate the one, two or three most important field conditions.			
<b>Field condition specification.</b> What is the specification (in measurable terms) for this field condition?			

## 6. Student tasks

### 6.1 Design and implementation tasks

List your primary design and implementation tasks in bullet list format (5-10 bullets). These are *not* product requirements, but *your* 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).