| For use by the Project lecturer | Approved | Revision required | |
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| Feedback | | | |
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| To be con | npleted by the student | | | | | | |
|-----------------------|------------------------|----------|------------|-----------------|-------------|----------------|--|
| PROJECT PROPOSAL 2021 | | | Project no | | Revision no | | |
| Title | Surname | Initials | Student no | Study leader (t | itle, initi | ials, surname) | |
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| Student declaration | Study leader declaration |
| I understand what | This is a clear and unambiguous |
| plagiarism is and that I | description of what is required in |
| have to complete my | this project |
| project on my own. | |
| Student signature | Study leader signature and date |
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| 1. | Pro | iect | des | cri | ption |
|----|-----|------|-----|-----|-------|
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What is your project about? What does your system have to do? What is the problem to be solved?

| 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. |
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| 2.1 Primary design challenges |
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| 2.2 Primary implementation challenges |
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| 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. |
| Describe the design in terms of system functions as shown on the functional block diagram in section 3.2. This description should be influentiated format. |
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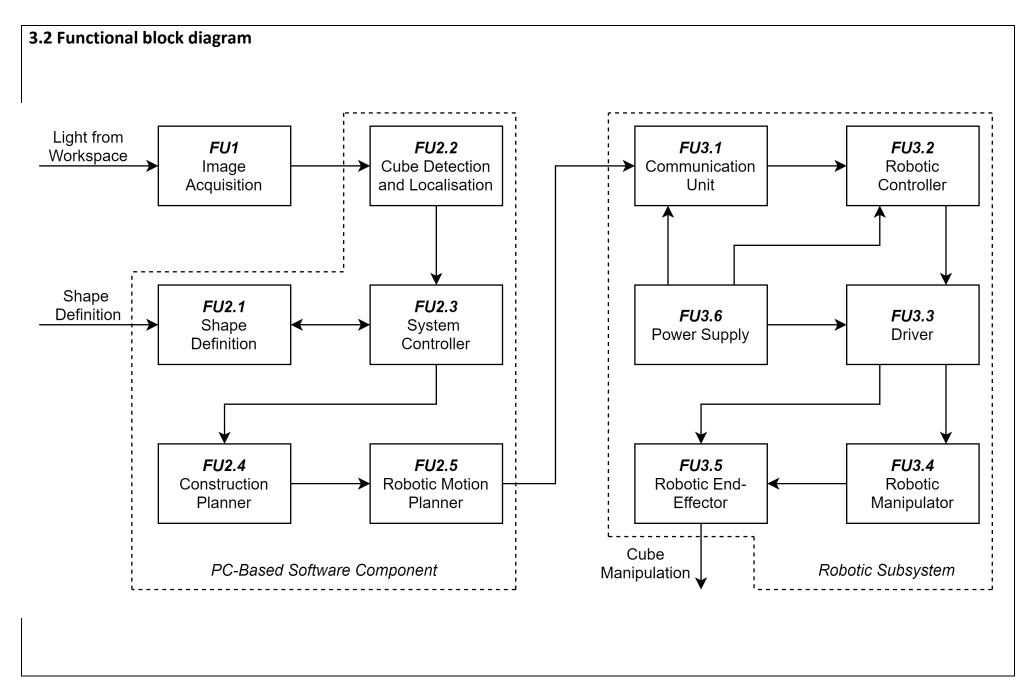


Figure 1. Block diagram showing the proposed functional structure of the system.

| | nts and specifications of the system or product (the mission-critical requirement | ents) in table format IN ORDER OF IMPORTANCE. Require | ment 1 is the most fundamental requirement |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| mese are the core requirements | Requirement 1: the fundamental functional and performance requirement | Requirement 2 | Requirement 3 |
| 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 4 | Requirement 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. <u>Motivation</u> : 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 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 <u>to be</u> 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 to be taken off the shelf to meet this requirement? If none, indicate "none" | | | | |

| 5. Field conditions These are the REAL WORLD CON | NDITIONS under which your project has to | o work and has to be demonstrated | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|---------------------------------|--|
| These are the NEXE WORLD COT | 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? | | | | |
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| 6. Student tasks | | | | |
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| 6.2 New knowledge Describe what the theoretical fo | | w knowledge you will acquire (beyond that covered in any | y other undergraduate modules). | |