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| ***Your company name*** |
| ***Your project name*** |
| **Requirements Definition** |

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| --- | --- | --- |
| **Issue** | **:** | **1.0** |
| **Date** | **:** | ***Today’s date*** |
| **Author** | **:** | ***Your name*** |

A project begins with understanding your detailed engineering and business requirements. This may be pre-defined or generated in discussions with DSL.

This document is aimed at helping you define your requirement by following and completing each section of the contents listed below:

**Contents:**

1. **Product Description**

* General Description of Requirement

1. **Functional Requirements**

* Main Function
* Sub Function

1. **Non-Functional Requirements**

* Environmental Requirements
* Power Requirements
* Cost Requirements
* Timescale Requirements
* Longevity Requirements
* Certification/Approval Requirements
* Production Requirements
* Documentation Requirements

1. **Product Description**

**General Description of Requirement**

*Use this section to summarise the nature of your requirement or problem you are endeavouring to solve through design (or redesign), information around any past history or future plans is also useful to capture here at a top level.*

1. **Functional Requirements**

**Main Function**

*Use this section to define the main functionality of the design at a top level.*

*i.e. What input/outputs are required? What devices will be attached? How will it communicate to the outside world? Does it have local processing/logging?*

**Sub Function**

*Use this section (and generate further sections) to detail specific key functions to capture any additional relevant information.*

*i.e. If the sub function is ‘Analogue inputs’: What type of analogue inputs do you need? How many? What resolution? What Accuracy?*

1. **Non-Functional Requirements**

*Use this section to describe any non-functional requirements of the design, such as operational temperature, minimum/maximum input voltages, long-term availability, cost, etc.*

**Environmental Requirements**

* *i.e What operational/storage temperature range must it meet? Humidity?*

**Power Requirements**

* *i.e. What input voltage range must it support? Max power consumption? Battery life?*

**Cost Requirements**

* *i.e. Is there a fixed budget for development, or per unit?*

**Timescale Requirements**

* *i.e. What timescales do you need to meet for prototyping, to market, etc?*

**Longevity Requirements**

* *i.e. Do you require a guaranteed lifespan?*

**Certification/Approval Requirements**

* *i.e. What type of region specific certification do you require?*

**Production Requirements**

* *i.e. What quantities will you be producing, is ongoing manufacture within the scope of your design requirement?*

**Documentation Requirements**

* *i.e. Are there specific documentation requirements within scope, such as a user or operator manual?*

If you need any further help or advice regarding your design, please feel free to contact us on the details below.

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For further information about our full Electronic design service, please visit <https://www.dsl-ltd.co.uk/electronic-design/>