

Checklist Completeness Functional Design

Project	
Project Group	
Checked by	

General

Topic	Checked
Is the cover page complete?	
<ul style="list-style-type: none"> Contains the text: 'Functional Design'? 	
<ul style="list-style-type: none"> Contains the place and date of completion of the Functional Design? 	
<ul style="list-style-type: none"> Is the group number/code of the project group present? 	
<ul style="list-style-type: none"> Contains the all the correct names of all project members and their correct student number? 	
Is there an Abbreviation explanation?	
Is there a Glossary?	
Are there References ?	

Lay-out

Topic	Checked
Is there a table of contents with page numbers?	
Are the chapters numbered?	
Are the page numbers on pages present?	
Are the chapters clearly indicated?	

Use of Language

Topic	Checked
Is the Functional Design document clearly-written?	
Is there correct language used (use spelling and grammar checking)?	
Is the language correct? No I, you , or we!	
No using of long sentences?	
Is the Functional Design document 'pointy ' written, with a clear structure and enumerations?	
Are unknown concepts explained first before they are used?	
Is the Functional Design always viewed from the same person?	

The chapters of the Functional Design

1 Introduction

Topic	Checked
Is there a short description of the project?	
Is there a clear goal for the Functional Design Document?	
Is there a clear overview of the document?	

2 Analysis of requirements

Topic	Checked
Are all the Functional requirements analysed ? (see SR document)	
Are all the Technical requirements analysed ? (see SR document)	

(example : system requirement : the data has to be shown in a graphical representation,
The analysis brings the conclusion that you have to use a screen)

3 Concept principles

3.1 Description of alternative concepts

Topic	Checked
Are there enough (at least 3) alternative concepts?	
Are the alternative concepts reasonable?	

3.2 Comparison of concept principles

Topic	Checked
Are the most important criteria for comparison chosen? (i.e. accuracy, safety, costs, dimensions, power, ease of implementation,)	
Is the comparison clearly done in a table?	
Is there a motivated choice possible ?	
Are the choices well motivated?	

3.3 Choice of the most promising concept principle

Topic	Checked
Are all choices made?	

4 Elaboration of chosen concept to functional design

4.1 Overview of concept design

Topic	Checked
Is there a clear overview of the concept design?	
Is there a clear technical block diagram?	
Is the technical block diagram complete?	
<ul style="list-style-type: none"> Electronically 	
<ul style="list-style-type: none"> Mechanical 	

4.2 Elaboration of concept design

4.2.1 Mechanical

Topic	Checked
Is the mechanical functional design clear?	
Is the mechanical functional design complete?	

4.2.2 Electrical

Topic	Checked
Is the electrical functional design clear?	
Is the electrical functional design complete?	
<ul style="list-style-type: none"> Supply 	
<ul style="list-style-type: none"> Amplifiers 	
<ul style="list-style-type: none"> Buttons 	
<ul style="list-style-type: none"> Display 	

4.2.3 Electronic

Topic	Checked
Is the electronic functional design clear?	
Is the electronic functional design complete?	
<ul style="list-style-type: none"> I/O architecture 	
Are the interfaces between all the blocks clearly described?	

4.2.4 Software

Topic	Checked
Is the software architecture design clear?	
Is the software architecture design complete?	
<ul style="list-style-type: none"> High level architecture 	
<ul style="list-style-type: none"> Low level architecture 	
Are the interfaces between all the blocks clearly described?	

4.3 Functional design integration

Topic	Checked
Is the functional design integration clear?	

Appendix

Topic	Checked
Are the difficult calculations done in the appendix? (i.e. The required power of a motor)	

