MECHANICAL DESIGN DOCUMENT

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# Project Code

# Introduction

[It includes expectations from Mechanical Functional area in the project]

# Concept Diagram

[Insert the concept diagrams. Suggested concept diagrams should represent major mechanical items of product. Typical mechanical modules of product include Chassis, Bezzel etc ]

# Mechanical Modules

## <Module 1 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### External Interfaces (if any)

[Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document”]

### Internal Dependencies

[Identify and list down the internal dependencies.]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Safety Considerations

[Specify safety considerations for the module]

### Parts Selection and Details

[Sub-parts selection and its characteristics affecting the selection]

### 2D/3D modeling considerations

### Failure modes and Mitigation steps

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

## <Module 2 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### External Interfaces (if any)

[Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document”]

### Internal Dependencies

[Identify and list down the internal dependencies.]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Safety Considerations

[Specify safety considerations for the module]

### Parts Selection and Details

[Sub-parts selection and its characteristics affecting the selection]

### 2D/3D modeling considerations

### Failure modes and Mitigation steps

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

# Off the shelf Components

[Identify and list down off the shelf components which are used in this application. State the reason for selection of each. ]

# Created by

[Mention the name of the Author.]

# Date

[DD/MM/YYYY]