**Coversheet**

**The Coversheet must contain the following:**

* **Heading “Autonomus System Form FSEast 2019”**
* **University and Team Name**
* **Car number**
* **Main Team Contact (e-mail) for ASF related questions**

Feel free to add team logo, car picture, and the like.

**Requirements:**

Maximum number of pages is 100 pages without the Appendix.

The document must have its Table of contents.

The table of contents must be hyperlinked.

The generated PDF must contain hyperlinked bookmarks.

Use internal reference links. For example, when describing wiring and mentioning a figure in the text then link it to the figure or if you want to refer to an another chapter please make a linkable reference to that.

Links to video or audio data are prohibited.

If you changed the format of the ASF Template, you will fail by default.

Every single part/heading of the ASF Template must be filled with content. If the respective part is not relevant for your concept, describe shortly why not.

Do not just copy all your datasheets in the appendix, e.g. we do not need to know how exactly your LIDAR works but the compliance information of the sensors are necessary. Similarly, do not just paste only a link to the entire data sheet. We should not need an internet connection to obtain the information necessary to review your ASF.

Single pages/figures/tables extracted from the complete datasheet showing the important parameters, figures, etc. are usually sufficient, but the source/link to the complete datasheet must be provided.

If the datasheet describes more than one type of the component, clearly mark in the datasheet to which type you are referring / which type you plan to use.

**Example**: You copy a datasheet describing a complete range of relays. If you selected the 24V SPDT monostable version, you must highlight the information referring to this specific version.

Datasheets should only be used as a reference. Please cover the important data in your text by using tables, figures, etc.

If you refer to parts of a data sheet, then you need to provide an internal document links from the text to the respective datasheet and another internal document link back from the datasheet to the text section.

If you are unsure with respect to feedback of the reviewer, do not hesitate to write an e-mail and ask.

Parts of the ASF which are changed because of reviewer’s feedback must be marked in red.

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# List of Figures

Has to be linked!

# List of Tables

Has to be hyperlinked!

# List of Abbreviations

# System Overview

* Short description of the system’s concept

## List of AS parts

List of the Autonomous parts

## Location of Autonomous parts

Rendered model of the car, where the autonomous parts are highlighted

# Autonomous System Implementation

## State Transition Table

A Comprehensive Diagram or table of the State Machine

## State Transition Description

Description of the State Machine

## EBS Transition Description

Description of the impact of the EBS to the state machine

# Emergency Brake System

## System Overview, Renderings and Wiring Diagram

### List of used parts

### Vehicle overview and EBS components positions

### Operational description

### Mechanical Parts

### Electrical wiring diagram

### Pneumatic / Hydraulic Systems

### Schematics of hard wired EBS logic and latches

## Description

### Functional Description

### Functional Safety

### System Critical Signals

### Hardwired Logic

# Service Brake

If the service brake is used for Autonomous Missions give a description about it.

# Steering System

## System Overview, Renderings and Wiring Diagram

### List of used parts

### Vehicle overview and Steering System Components Positions

### Operational description

### Mechanical Parts

### Electrical wiring diagram

## Description

### Functional Description

### Functional Safety

### System Critical Signals

# ASSI Implementation

## System Overview, Renderings and Wiring Diagram

### List of used parts

### Vehicle overview and ASSI Components Positions

### Operational description

### Mechanical Parts

### Electrical wiring diagram

## Description

### Functional Description

### Functional Safety

### System Critical Signals

# Additional Autonomous parts

Give a description about the additional autonomous parts

# Appendix

Relevant parts of the datasheets etc. All appendix items must have link back to the original paragraph.