**Coversheet**

**The Coversheet must contain the following:**

* **Heading “Autonomus System Form FSEast 2021”**
* **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 Abbreviations

# System Overview

* Short description of the system’s concept

## Actuator power supply

High level schematic of all AS actuator, sensor and logic

# Autonomous System Implementation

## Autonomous System Architecture Diagram

A high-level function and component overview of AS parts

## State Transition Chart

A Comprehensive Diagram or table of the State Machine

* 1. **State Transition Description**

Details of all state transitions

# Emergency Brake System

## System Overview, Renderings and Wiring Diagram

### List of used parts and high-level block diagram

### Vehicle overview and EBS components positions

### Mechanical Parts

### Electrical System

### Pneumatic / Hydraulic Systems

### Schematics of hard wired EBS logic and latches

### Initial checkup flowchart

### Continuous monitoring flowchart

## Description

### Functional Description

### Functional Safety

### System Critical Signals

### Hardwired Logic