

# **Embedded Systems (Abstract)**

## Björn Grill, 4AHITN 2020/21

# Description of the project

The foundations of this work are based on the options and the related Research about automatized systems in devices, which take care about several tasks for humans and how they are controlled. To pass through a basic knowledge of electrical engineering is required.

The general question of sense of purpose for the functions in embedded systems will note limited. Several existing systems and those way to work are explained in the "History" part. Technical implements about the opportunities can be found in "Technologies and opportunities of the Future".

## Questions of Research

- How can devices get automatized?
- Which design or function is reasonable?
- Which technologies are already existing?
- How do embedded systems work?
- How are embedded systems are produced?
- Why are embedded systems preferred?

#### Results

Embedded systems are already a full part of our daily life. They have thousands of uses in different sections and take care about many tasks without any help from a user. We are almost dependent on them and even confide them our security. These systems cannot be removed from our lives.

They are produced in high technical environments abroad and are requested because of their reliability. They automatize devices by including several circuits to a product and gave a software along. But not everything is beneficial to be done by embedded systems. In some cases, such a system or network of systems should not be fully independent. In critical sections of decisions there must be the possibility to interfere by a human hand.