**Working Student**

**Video Processing on an Embedded Device**

**Task Description**

The goal of the project is the implementation of an embedded system for secure storage and transmission of video/audio data, for instance for videoconferencing applications. The desired features include efficient video encoding, encryption and digital signing of data, as well as local storage and live transmission. However, implementation of custom video encoding techniques or similar lies out of scope of this task. Instead, efficient application of already available open source software, e.g., Gstreamer\(^1\), is preferred.

The monthly working time is 40 hours and can be increased if desired.

**Prerequisites**

The candidate should fulfill the following requirements:

- Knowledge in the field of video processing and codecs
- Experience with Gstreamer software
- High motivation and independent work style
- Good knowledge and experience in C/C++ programming is advantageous

**Contact**

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\(^1\)https://gstreamer.freedesktop.org/