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At BMW Car IT, a wholly owned subsidiary of BMW AG, we live and breathe software. We design and implement embedded software for the electronic control units of the BMW cars as well as related tools and frameworks.

Master Thesis: Recognition of building facades based on image processing.

Today's cars are equipped with front view cameras in order to understand the world in front of the car. Field of view of the camera encloses useful information such as buildings on the side of the street. The goal of this thesis is to recognize the facades of the building visible in the video stream of the front camera. In this context, we will identify and evaluate different computer vision methods to recognize building on the street. The outcome of the thesis shall be a proof of concept application in form of a C++ demonstrator running on Linux system and proposal for the next steps of evaluation.

Requirements:

- Solid programming skills in C++
- Basic knowledge in Computer Vision
- Fluent English
- Experience in Linux is desirable

Location: Ulm

Contact: students@bmw-carit.de

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