Assignment 3.1

Read and understand the papers from Zhang and Heikkil (provided in LEA). Based on your understanding of camera calibration, design a calibration setup and detail the actual calibration process.

Test the provided camera on your laptop and ensure you can capture still images.

Deliverables 3.1

Write a design report describing the calibration process, including a theoretical part that describes the camera and lens errors measured and corrected by the calibration. Your design report should cover:

- 1. A description of the setup for calibration, including possible pitfalls.
- 2. An estimation of the number of images and image positions required.
- 3. a description of the parameters (what do they mean?) calculated by the Matlab calibration toolbox.
- 4. Discuss possible problems or error sources that can disturb the calibration process. Include any observation you may have made while testing the proper functioning of the camera with your laptop.