

# Weekly Report

## 6/7 – 6/13

- Studied the ORB\_SLAM2 library and SLAM algorithm.
  - ORB\_SLAM2
    - Tracking
      - Extracting ORB features
      - Pose estimation
      - Tracking map
      - Deciding key frame
    - Mapping
      - Recognition - bag of words (DBoW2 library)
      - Inserting map points
      - Covisibility graph
    - Localization
    - Looping closing
- Found how to use the library with webcam.
  - Need to adjust calibration.

Plans for next week:

- Recalibrate the settings for webcam.
- Keep studying ORB\_SLAM