

Weekly Report #3

Group Nr. 9

1 Weekly Progress

Accomplished tasks:

- Ihsan Berkan, Balaban: Tried to optimize the volumetric grid using different ranges for grid parameters and truncation values.
- Dominic, Ebner: Fixed bilateral filtering and build process
- Lukas, Schneidt: Understanding implemented code, research on raycasting
- Muhammad, Faizan: Integrated CUDA implementation of surface measurement in pipeline. Started working on CUDA implementation of ICP.
- Everyone: Team Discussion on progress, planning and dividing tasks

2 Problems

- Performance aspects of creating pyramid mapping of depth measurements
- Raycasting and rendering
- A lot of CUDA errors.

3 Results

4 Plan

- Complete CUDA implementation of ICP.
- Team discussion and start working on integration of Volumetric Fusion and Ray Casting.
- After Ray casting, we will use frame-to-model ICP.