# Enter your project title here

3D Photography Project Proposal
Supervised by: Enter your project supervisor here
March 6, 2015

GROUP MEMBERS

Member Name Member Name Member Name



## I. DESCRIPTION OF THE PROJECT

The goal of the project is to implement a pipeline for modeling of a dynamic scene using multiple Kinect cameras with known position and orientation. An octree volumetric representation enhanced by a binary time tree will provide the efficient 4D space-time data storage required for this project. The fusion of depth maps will be based on the rigid scene 3D modeling approach demonstrated in KinectFusion.

## II. WORK PACKAGES AND TIMELINE

TABLE I
THE DERIVED WORKPACKAGES WITH DETAILS AND A RESPONSIBLE MEMBER.

| ID | Workpackage | Description | Platform & Language | Responsible member |
|---|---|---|---|---|
| WP1 | Calibration (intrinsic) | | | |
| WP2 | Depth data acquisition | | | |
| WP3 | Depth to voxel grid | | | |
| WP4 | Voxel grid data structure | | | |
| WP5 | 3D visualization | | | |
| WP6 | Calibration (extrinsic) | | | |
| WP7 | Camera fusion | | | |
| WP8 | Time-space partitioning tree | | | |
| WP9 | Time-space visualization | | | |
| WP10 | Data integration/update | | | |
| WP11 | Demo preparation | | | |
| WP12 | Reporting | | | |

## III. OUTCOMES AND DEMONSTRATION

Give detailed information on the expected outcome of your project and the experiments you plan to test your implementation. If applicable, describe the online or offline demo you plan to present at the end of the semester.

| ID | Start | Finish | Duration | Parents |
|---|---|---|---|---|
| 1 | 9-3-2015 | 13-3-2015 | 1w | - |
| 2 | 16-3-2015 | 20-3-2015 | 1w | 1 |
| 3 | 23-3-2015 | 3-4-2015 | 2w | 2, 4 |
| 4 | 9-3-2015 | 20-3-2015 | 2w | - |
| 5 | 23-3-2015 | 27-3-2015 | 1w | 4 |
| 6 | 30-3-2015 | 3-4-2015 | 1w | - |
| 7 | 13-4-2015 | 24-4-2015 | 2w | 3, 7 |
| 8 | 23-3-2015 | 3-4-2015 | 2w | 4 |
| 9 | 13-4-2015 | 17-4-2015 | 1w | 8 |
| 10 | 27-4-2015 | 8-5-2015 | 2w | 7, 8 |
| 11 | 11-5-2015 | 22-5-2015 | 2w | 10 |
| 12 | 11-5-2015 | 22-5-2015 | 2w | 10 |

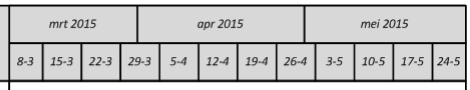


Fig. 1. Gantt chart showing the workpackage dependencies and the total planning