

# 3D Reconstruction using Time of Flight Sensors

EE/CprE 491 Weekly Report

Dec15-09

Week 10 (3/30/15-4/5/15)

Adviser: Tom Daniels  
Client: VirtuSense Technologies  
Members: Team Leader – Monica Kozbial  
Team Webmaster – Sarah Files  
Team Communication Leader – Kyle Williams  
Team Key Concept Holder – Yee Zhian Liew

## Weekly Summary

-Finishing up the project plan version 2.  
-continue our research  
-Note: Sarah had surgery 4/1 and was unable to make meetings due to doctor appointments and recovery time

## Meeting Notes

### 3/31 Group meeting with members

**Duration:** 0.5 hour      **Members Present:** All members except Sarah

**Purpose and Goal:** Met to plan what we are going to do for tomorrow meeting.

**Achievements:** We have set a lab meeting on Saturday afternoon.

### 4/1 Group meeting with members, and advisor

**Duration:** 1 hour      **Members Present:** All members except Sarah

**Purpose and Goal:** Have a discussion with advisor on the project. Having problem with the mesh.  
Adviser has given us some advises to improve it.

**Achievements:** Take multiple meshes in the same orientation is the solution recommended by the adviser.

### 4/4 Lab meeting with members

**Duration:** 3 hours      **Members Present:** All members except Sarah

**Purpose and Goal:** Finalize the project plan version 2. Changing the excel part in project plan.

**Achievements:** Finish project plan version 2.

## Plans for Next Week

**Monica:** Research to begin process of interpreting sensor data to convert to Mesh.

**Sarah:** Research WPFs, draw UI screens for the Kinect and begin programming for it. Plan out a tutorial for first time users.

**Kyle:** Research methods of filtering out backgrounds and smoothing raw 3D data. Begin to implement.

**Yee Zhian:** Research python on Blender.

### **Individual Contributions This Week**

**Monica:** Adviser and group meetings (4.5 hrs)

**Sarah:** Adviser and group meetings (0 hrs)

**Kyle:** Adviser and group meetings (4.5 hrs)

**Yee Zhian:** Adviser and group meetings (4.5 hrs)

### **Total Contributions for Project**

**Monica:** 41 hrs

**Sarah:** 38 hrs

**Kyle:** 38 hrs

**Yee Zhian:** 37.5 hrs