Project Plan and Timeline

# Project Plan

We plan to split the project into three phases – determining and implementing the best point-matching algorithm, implementing the stereo depth mapping algorithm, and determining and implementing 3D object face detection. If time permits, we would like to implement a 3D rendering of the scene as determined from the stereo depth information and the object face detection.

If time does not permit, we will choose to only implement a point-matching algorithm and depth-mapping algorithm, as we know that both of these can be implemented in a reasonable amount of time. Both of these algorithms are fairly well studied and should be easy to implement within the timeframe given.

# Timeline

Week 1 – Determine, Implement, and Benchmark Point-Matching Algorithm. Prepare test set of image data.

Week 2 – Implement Stereo Depth Mapping Algorithm

Week 3 – Begin to implement 3D object face detection and prepare for demonstration and class presentation