

Visnav Project Proposal

Group 9

George Popescu | Julian Tatsch | Katrin Kehrbusch

Idea



Research Problem

Identify faces in a room



Form groups of faces to take picture of each group



Calculate ideal camera pose



Fly to ideal camera pose



Smile detection to trigger picture taking

How to Solve

- OpenCV for face detection
 - with FaceRecognizer
- Clustering to determine groups
 - K-Means or different
- Smile detection
 - With Cascade Classifier and Haar-like features

Implementation Plan



Face detection



Clustering and pose
calculation



Smile detection

Potential Applications



Family events

- no need to look for a photographer



Class/Graduation pictures

- by capturing from an angle we capture all the faces regardless of height



Stage show

- no obstruction though silly photographers

Feedback

