GEDIZ UNIVERSITY COMPUTER ENGINEERING DEPARTMENT

COM 497- SENIOR DESIGN PROJECT I PROPOSAL FORM for INSTRUCTORS

Academic Year: 2015-2016	Semester:Fall
1.Logistics	
Supervisor : Asst. Prof. Dr. Ibrahim Furkan InceCo-supervisor:Proposal No. : 3Proposal Date : 05/10/2015Number of Students : 3Prerequisites : Image processing knowledge including programming skills with Java or C++.	
2. Subject Classification	
Image Processing, Computer Vision, Patter	n Recognition
2. Title of Project	
Camera Based Accident Recording for Building Black Box for Vehicles	
3. Description of the Project ¹	
Pattern Recognition is one of the fundamental ways to understand ever so frequent traffic accidents. By having a black box like device that records potentially risky situations based on pre-determined event triggers, more data can be gained to prevent further accidents from happening.	
4. Scope of the Project	
Development of a device that records 3d footage by combining images from multiple lenses. Then, using image processing to detect event triggers.	
5. Goals of the Project	
 Students will experience a software development cycle by their team mates Students will experience the development of computer vision based application 	
4. Key techniques	
- Creating panoramic images from 2 scale and skewness by finding robu	D image sequences with different angle of views, rotation, ist features for image registration.
5. Project outcome	
Multiple cameras driven black box for vehicles	
6. Hardware/Software/Lab/	
equipment requirements	
- Java or C++ as the programming la	nguage

¹ If necessary please use a separate sheet