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|  | **HASAN KALYONCU UNIVERSITY****Computer Engineering Department****COME 499 Project Proposal Form** |

**Part I. Project Proposer**

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| **Name - Last name** | **Dr. Abdul Hafiz ABDULHAFIZ** | **E-mail** | **Abdul.hafez@hku.edu.tr** |

**Part II. Project Information**

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| **Starting Term** |

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| **Title of the Project** | Virtual reality (VR) mobile-based tour guide for Gaziantep city |
| **Project Description** |
| The Project aim at dveloping an application tour guide for Gaziantep city. The tourist user can run the App which open the mobile camera and image the street. The user can search for a target place, then the VR tools will show a virtual guid to it. Moreeeover, if the user focses the camera on a certain place or land mark, the guid will provide the availble information on it. These information can be clistered into history, people, sevices provided, etc.   |
| **Project Justification** |
| **Novelty** |
| **New aspects** | The aimed software application is a challenging problem since it includes place recognition, and virtual reality applications.  |
| **Complexity** |
| **Challenging problem and issues** | The student will learn virtual reality and image analysis programming teachniques He/she also to master mobile and android programming.  |
| **Related computer science fields and subfields** | Computer Graphics, Virtual reality, image procesing and analysis. |
| **Tools** | Python and/or C++ programming, Android programming, Open CV |
| **Risk involved** |
| **Potential problems and alternative solutions** | Students need to study the interface design in addition to their expected skills from Computer Engineering courses. |
| **Minimum work required** | 3-4 months (2-3 Students) |