Faculty Name: Dimitrios Androutsos

Project Title: Real-Time Image Processing in Augmented Reality

Description of Project (Provide ½ page project description)

The project will focus on using the new META Augmented Reality glasses and developer kit to perform real-time image processing tasks on various objects that are seen through the glasses. The goal of this project is to understand how the AR system works and what types of image processing tasks can be done do what is seen through the glasses. The goal is to investigate a number of different algorithms to see which, if any, can be done in real time and how they can increase the effectiveness of the perceived scene through the META glasses.

Responsibility of Student (Specify the duties and responsibilities of the student)

The project will require some preparatory literature review on augmented reality and 3D; will then require learning to code with the META software developer kit in the C programming language; and the project will require the student to learn basic and fundamental image processing algorithms and figure out how to implement them on the META glasses in real-time.

Specify Requirements (Please state any specific requirement of this position)

Good programming skills.