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**BLG 453E Homework – 5 Report**

**Optical Flow &**

**Principal Component Analysis**

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**Introduction**

In this assignment, we were asked to build a python implementation for corner detection and segmentation with k-means clustering. The program should also have some kind of GUI, by using PyQt Libraries.

P.s- The folder containing the source code should contain write permissions, since the result images are written to the current directory after each succesfull operation

**1) Harris Corner Detector**



**Figure 1- x and y gradients**