

Computer Engineering & Software Design Project

IntelligEyes – QR App for the Visually Impaired

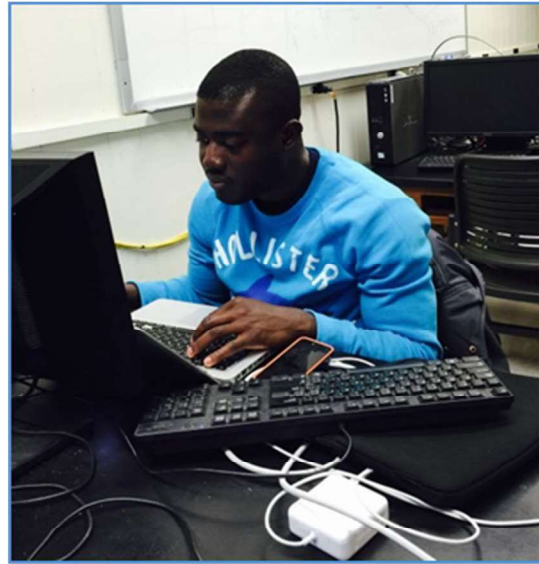
Mission Statement

This project aims to create an easy to use phone application to aid the visually impaired in navigating a busy world by utilizing a Quick Response reader camera to scan 3D printed QR codes.

Synopsis

Building upon previous iterations from the Life Support and Sustainable Living (LSSL) Program, the IntelligEyes project has created an easy to use phone application to aid the visually impaired in navigating a busy world. In previous years of the LSSL program, a Quick Response (QR) reader camera that scans 3D printed QR codes was developed. This project looks to build on this technology to create a fully functional prototype.

The purpose of this project is to complete a three dimensional prototype of a three sided Quick Response (QR) trapezoid, to aid the visually impaired. Currently, many buildings are equipped with the Braille system; however, these Braille signs provide very limited information to the visually impaired. IntelligEyes will increase the range of information that can be provided to the visually impaired. This QR trapezoid can be used with any device with smart phone capabilities that has the application installed and the required application is easily accessible to the general public. The application will send the user to a website that hosts directional audio files. We are looking to implement the prototype will into a “real world” facility.



Sean Belleau
Tylur Craddock
Margaret DuCasse
Atta Henoun
Samuel Michel

University of New Haven
University of Connecticut
Manchester CC
University of Connecticut
Norwalk CC