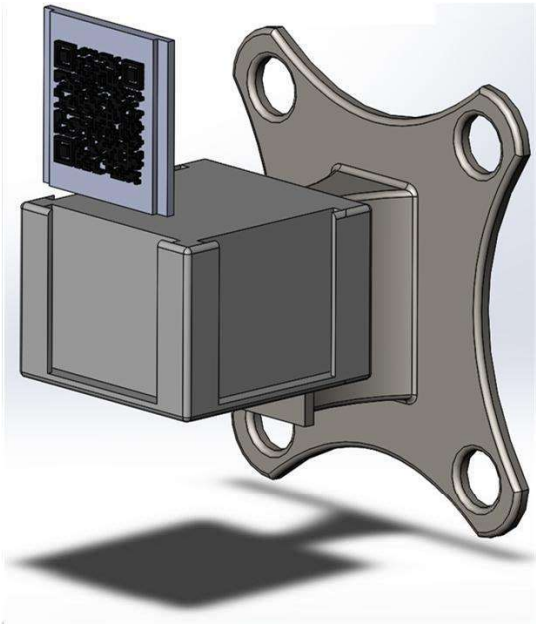
Cyber Space Sustainability Project

IntelligEyes – Phase II

Mission Statement

The mission of this project was to complete a three dimensional prototype of a three sided Quick Response cube to aid the visually impaired.



Synopsis

Currently many buildings are equipped with the Braille system to aid the visually impaired. This cube can be used with any device with smart phone capabilities with appropriate applications that are easily accessible to the general public. The application will send the user to a website that hosts directional audio files. The prototype will potentially be implemented into a facility. This year the team changed the model from having the QR code on the cube to having the QR codes being able to slide in and out of the cube itself

The team found that trying to 3D print in more than one color on each side of the cube was not satisfactory. The creation of multi slide thin plate like squares was the solution. In office building the cubes can be mass produced and the extra squares can be printed upon request with appropriate information. The team also changed the QR codes by inputting the web link into a compressed text URL.

The team conducted many interviews with the visually impaired. The final design reflects the findings.

A Phase III of this project is anticipated and will incorporate multilingual audio files is to serve other countries.

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