

Artificial Vision Device for the Visually Impaired

Status: Filled

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Project Description

Project Background:

Visually impaired people often rely on assistive technologies to accomplish their daily tasks. Devices based on computer vision technology have been developed to facilitate and improve the quality of social interactions. However, the existing solutions offer limited functionality for a high price. The cost (at the moment a similar product is sold for approximately 4,500 CAD) puts these devices out of reach for a large portion of visually impaired users.

Solution:

We propose to build an alternative solution to address the limitations of existing devices. By the end of this Capstone project, our team will deliver a prototype of a wearable device capable of performing facial recognition and notifying the user of the person(s) in front of him or her. We aim to reduce the cost of the device to the end user by building on top of open

