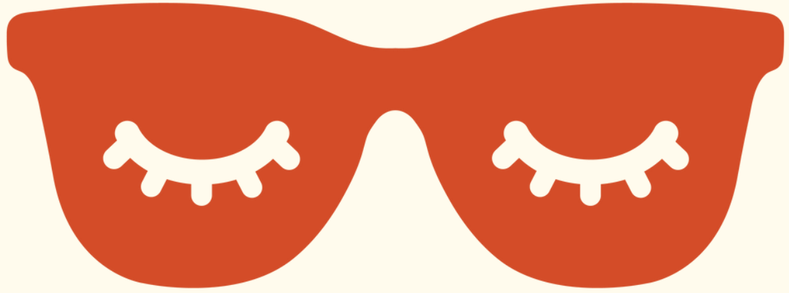

ISON

KJ Butler, Lael Lum, Rayven McMillian,
Daniel Stevens, Leah Vaughan

Meet Team Quebec

Our Product

Physical text reading glasses for the visually impaired

Daniel Stevens
Team Lead
Bluetooth Lead
App Support

Lael Lum
Audio Output Lead
Bluetooth Support

Rayven McMillian
Charging Station Lead
Audio Output Support

KJ Butler
OCR Software Lead
App Lead

Leah Vaughan
OCR Software Support
Charging Station Support
Project Manager

Dr. Dabbiru
Team Advisor

Problem

Visual and learning impairments make life harder:

- Difficulty reading
- Limited learning ability
- Communication barriers

Solution

The ISON glasses are equipped with:

- Built-in camera and speakers
- AI to detect text of all fonts
- Translating app compatibility

Our Customer

Jimothee Zhalamet, 42

Visually Impaired

Jimothee works as an accountant for Sullivan’s Office Supply.

- Great at his job
- Can not read due to his disability
- Normal glasses do not help

ISON glasses would allow Jimothee to:

- Read text on physical documents
- Use reading aids inconspicuously

High Level Project Description

Potential Obstacles

Incompletion of the **camera** and **app** subsystems

Feasibility: Moderately Challenging

Subsystem 2

OCR Software

Subsystem 3

Audio Output

Subsystem 1

Bluetooth

Subsystem 4

Charging Station

Subsystem 5

App

Competitive Advantage

Envision [1]

These companies offer text-to-speech products, but they **stand out** when they're worn.

OrCam MyEye [2]

Problem Objective and Goals

- Detect text and discreetly read it to the user.
- Allow people with low vision to read physical text.
- Improve the quality of life for ISON users.
- Allow use of reading aids without standing out.

Questions?

References

[1] “Envision Glasses: Home Edition - AI-powered smartglasses,” Envision Store. https://shop.letsenvision.com/products/glasses-home

[2] “OrCam MyEye PRO - AI Smart Reading Device for the Blind and Visually Impaired,” Rehabmart.com. https://www.rehabmart.com/product/orcam-myeye-pro-50630.html

A. Welp, R. B. Woodbury, M. A. McCoy, and S. M. Teutsch, “The Impact of Vision Loss,” Nih.gov, Sep. 15, 2016. https://www.ncbi.nlm.nih.gov/books/NBK402367/

“Visual Impairments,” Health Policy Institute. https://hpi.georgetown.edu/visual/