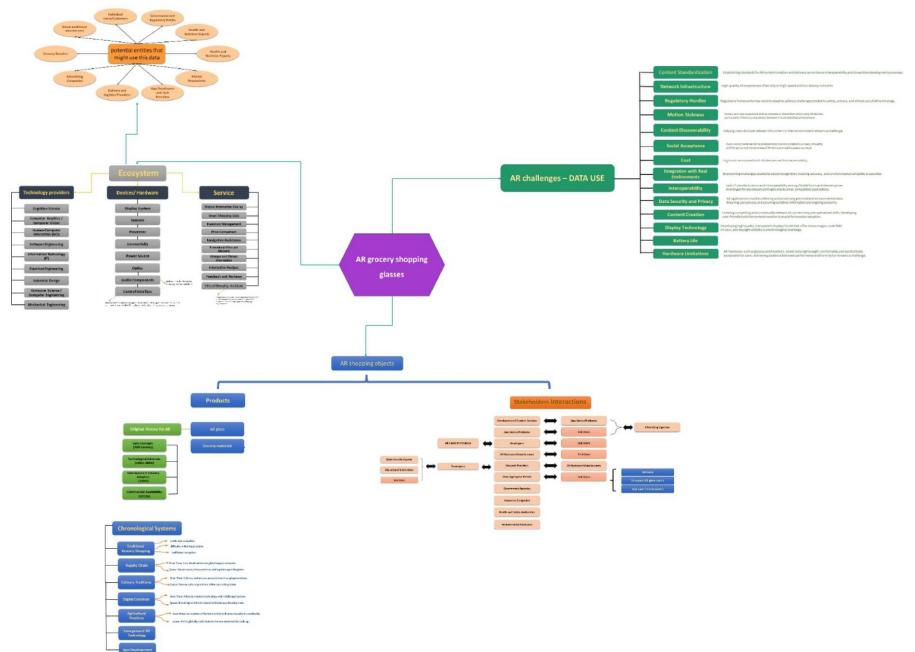
AR GLASS

MDES607-PROTOTYPING-LAB

Artemis Koolivand

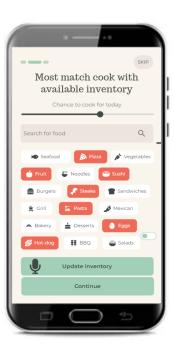
PROTOTYPES



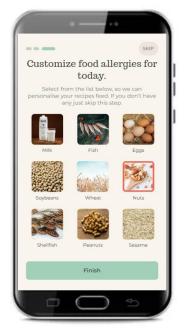


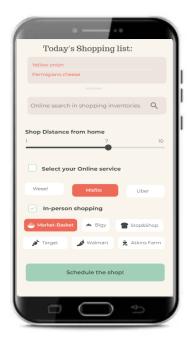
VERSION 1

HOOK THE COOK APP









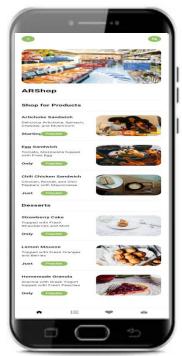
version 2

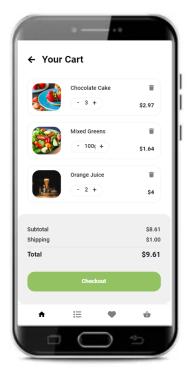
HOOK THE COOK APP + AR

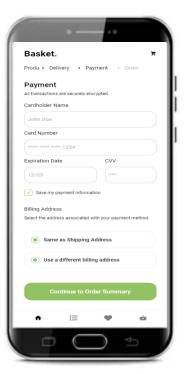








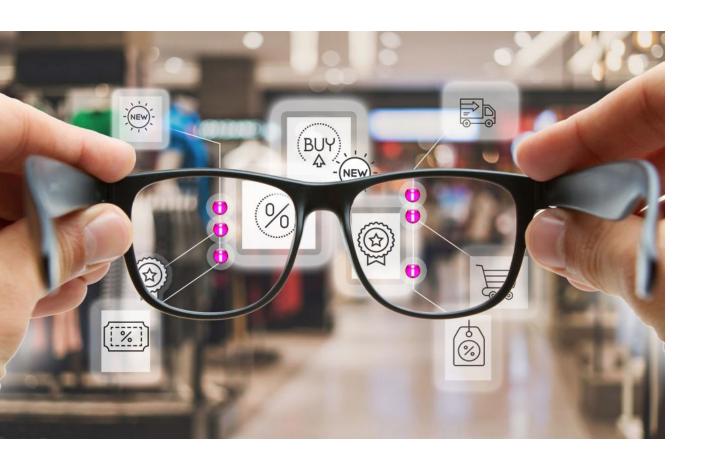






AR GLASS

Augmented Reality (AR) is a technology that overlays digital information, such as images, videos, or 3D models, onto the real-world environment in real-time. AR enhances the user's perception of the physical world by blending digital content seamlessly with the surrounding environment.

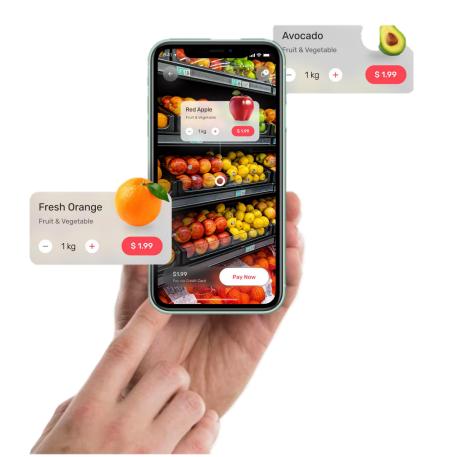


AR GLASS

Functionality

- ➤ Remote Assistance and Collaboration
- ➤ Navigation and Wayfinding
- ➤ AR enhances navigation by overlaying directions and relevant information onto the real world, aiding users in wayfinding
- AR is used in retail to allow customers to visualize products in their real-world environment before making a purchase decision. (AR in Retail: Visualize Before You Buy)

The App has access to an AR camera



BACKGROUND STORY

As the COVID pandemic unfolded, I pondered on ways to recreate the genuine grocery shopping experience from the comfort of home, ensuring access to fresh, high-quality products. I longed for the convenience of personally choosing and purchasing fresh vegetable bags. In a busy world where multitasking is the norm, many people prefer to save time on cooking tasks, opting to buy pre-prepared meals and valuing efficiency in every aspect of their culinary journey.

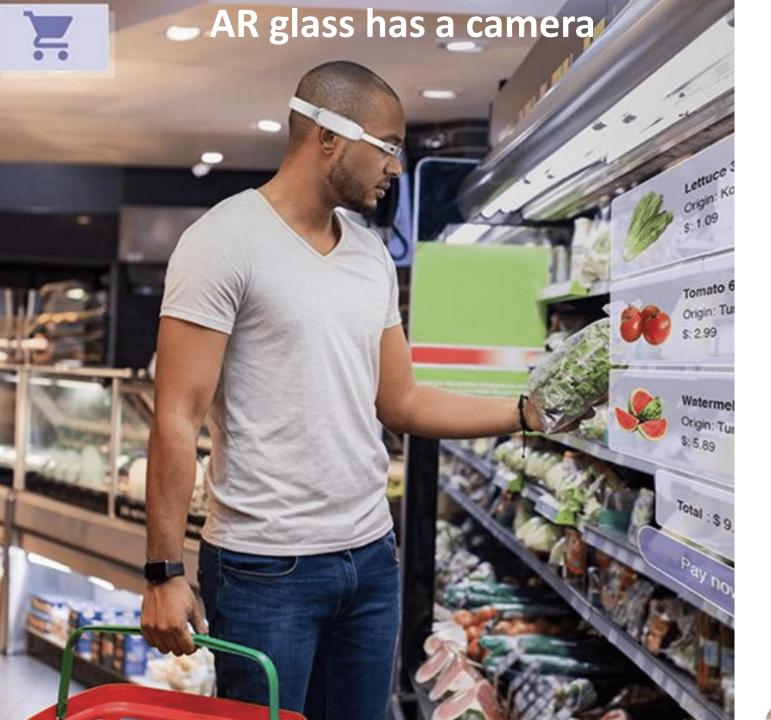
AR glasses serve as a visual aid in such situations, enabling individuals to see through your perspective and immerse themselves in real-life experiences.

MARKET SIZE

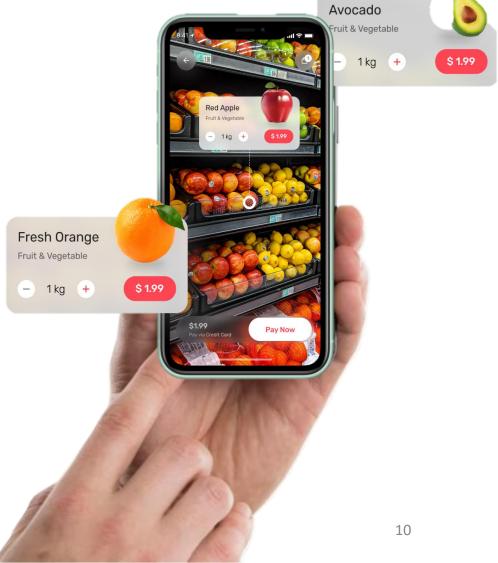


1.04T

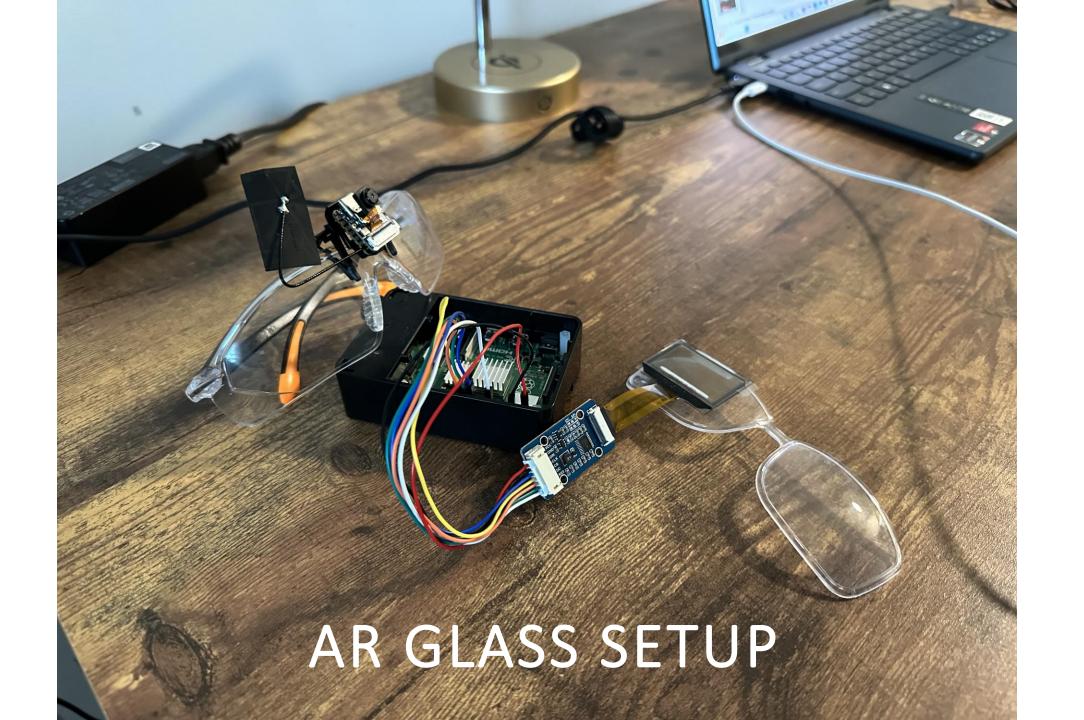
Online Grocery Market App



The App has access to an AR camera



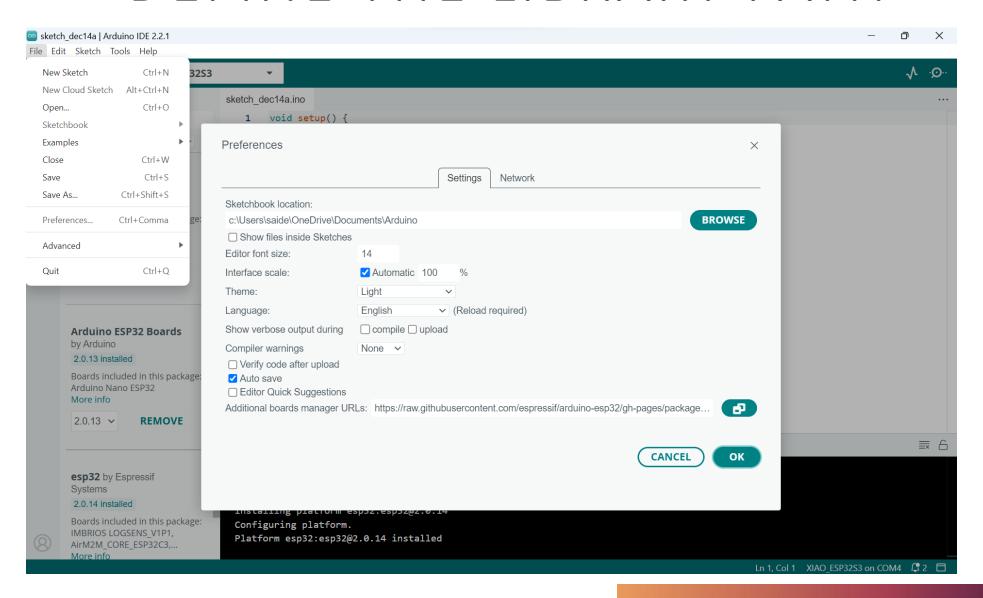
PROTOTYPE HARDWARE



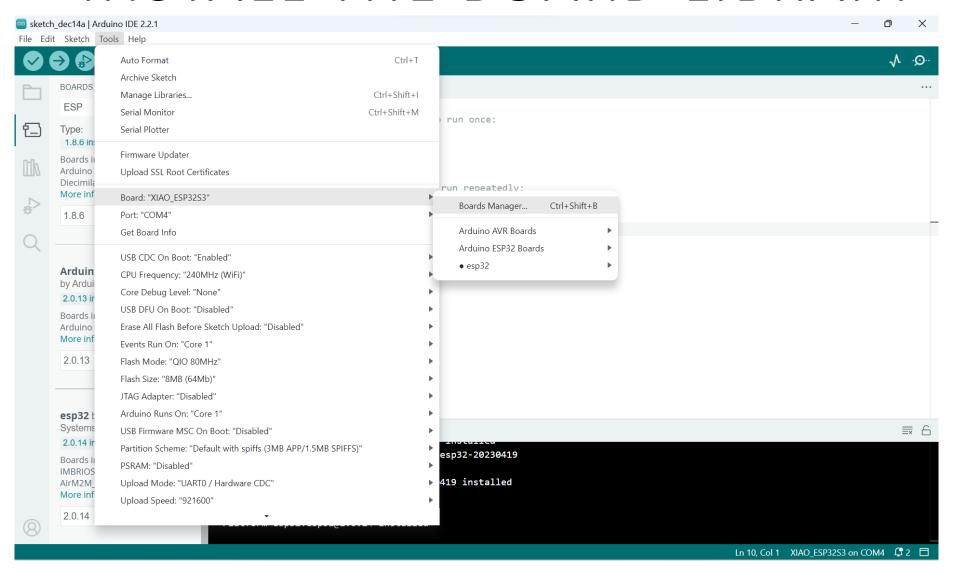
1. WIRELESS CAMERA



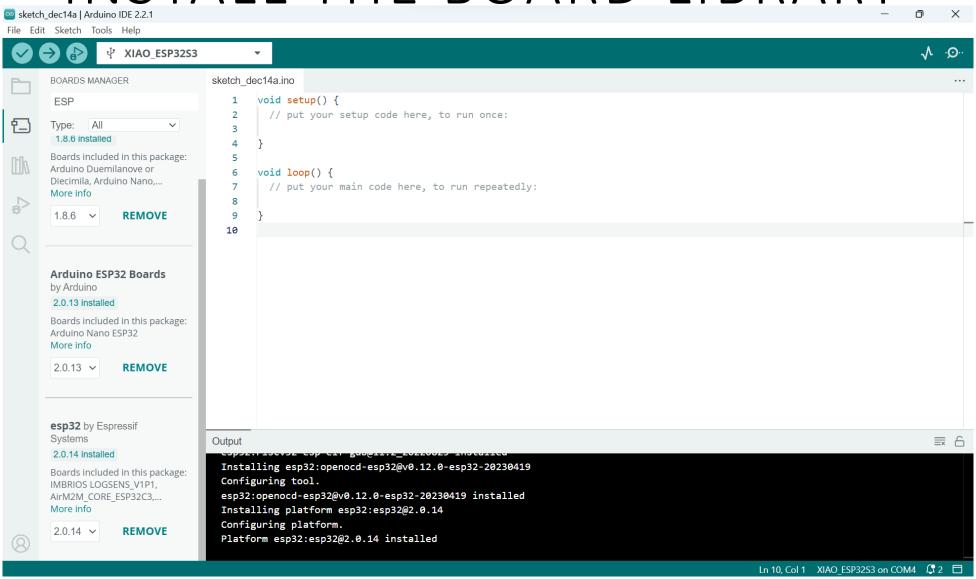
DEFINE THE LIBRARY PATH



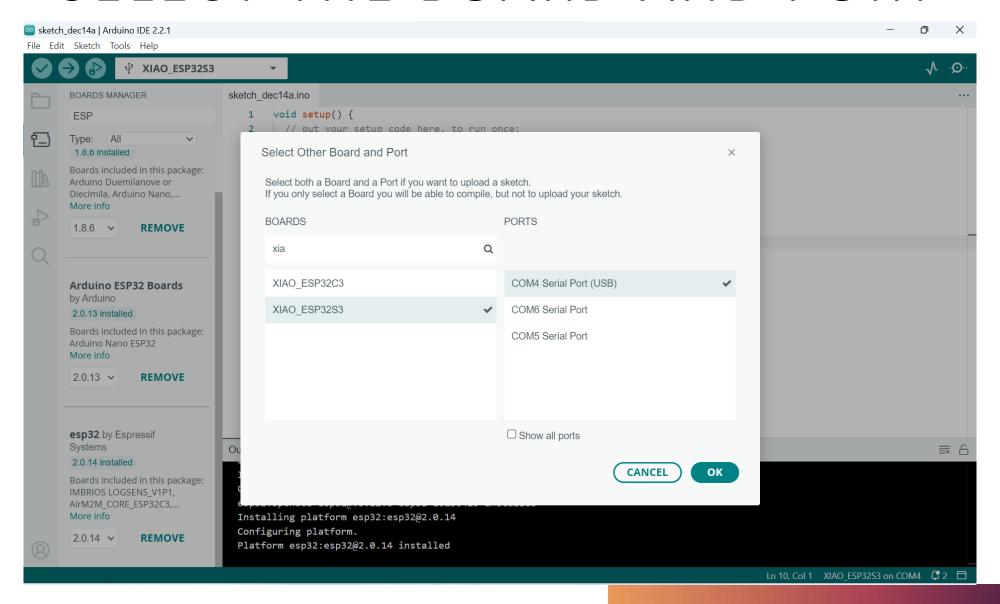
INSTALL THE BOARD LIBRARY



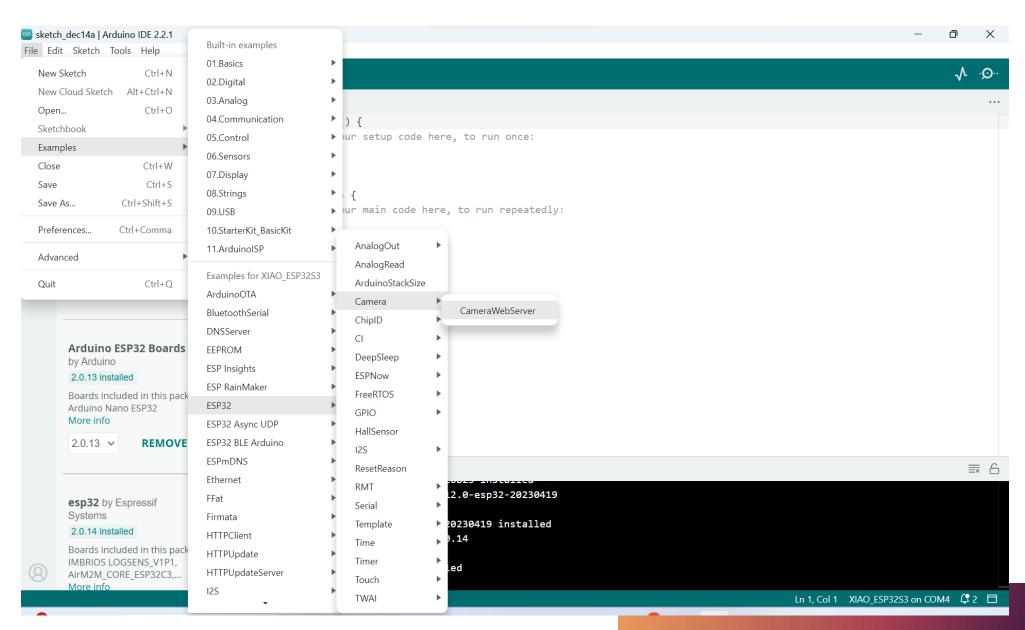
INSTALL THE BOARD LIBRARY



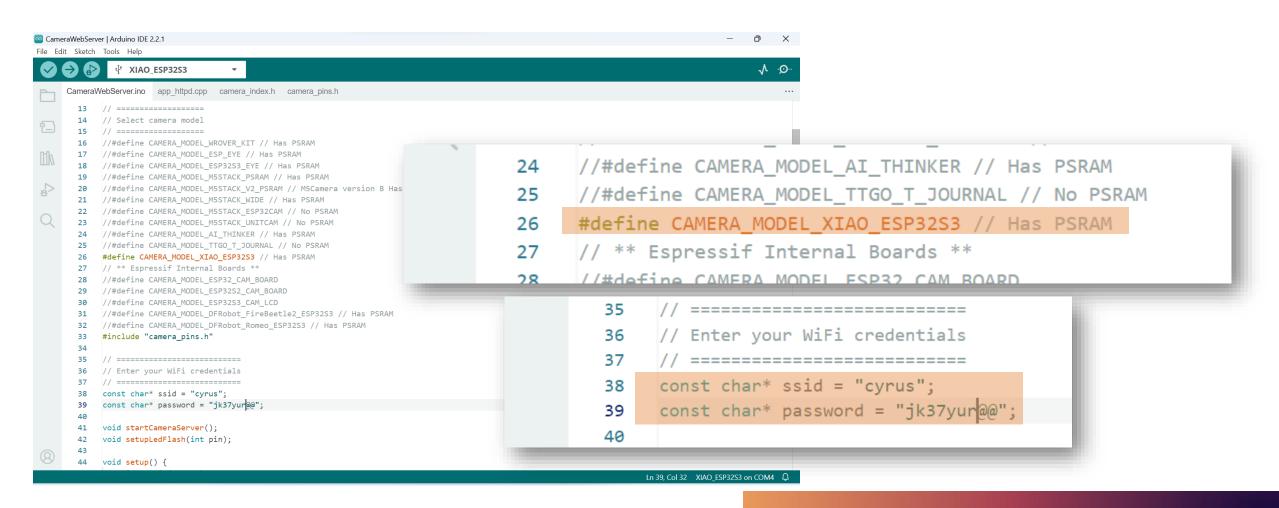
SELECT THE BOARD AND PORT



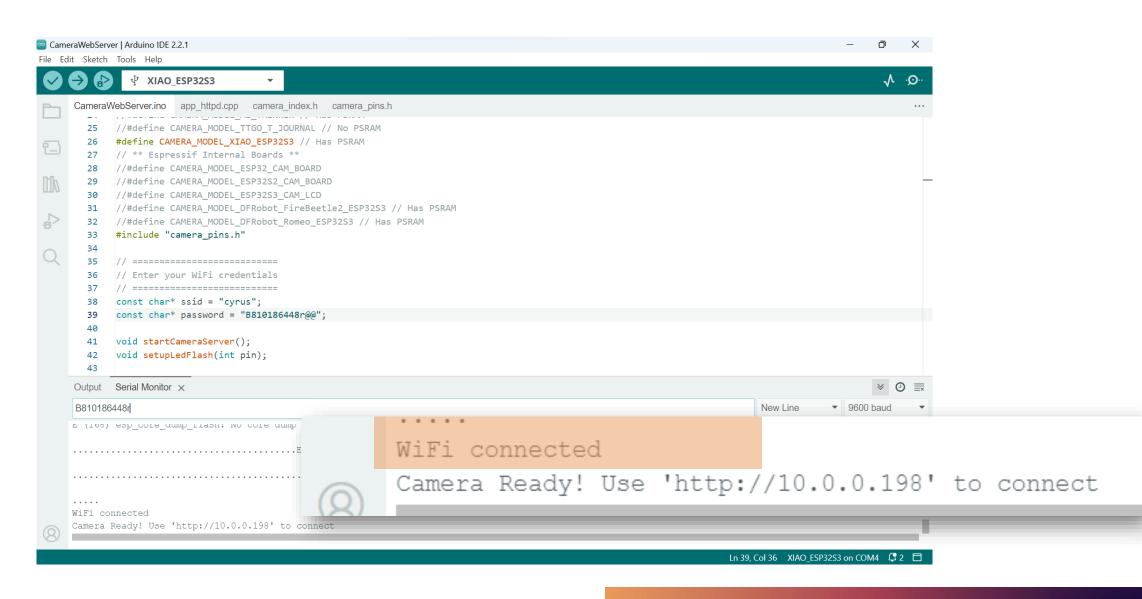
UPLOAD THE PROGRAM



UPLOAD THE PROGRAM AND CHANGE THE WIFLAND CAMERA SETTINGS

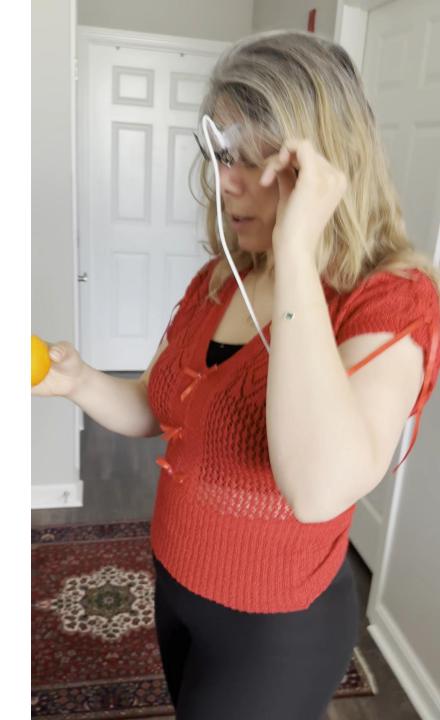


COMPILE AND UPLOAD

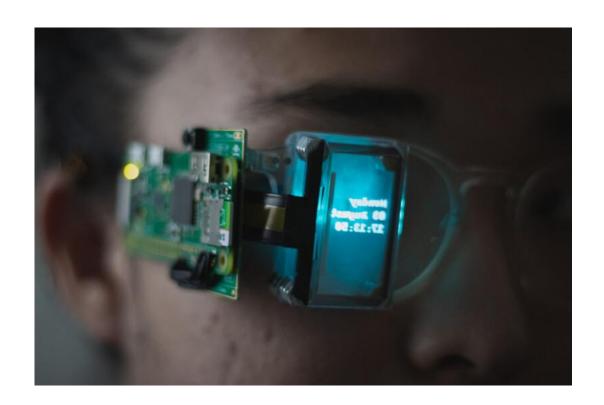


I MADE A VIDEO...

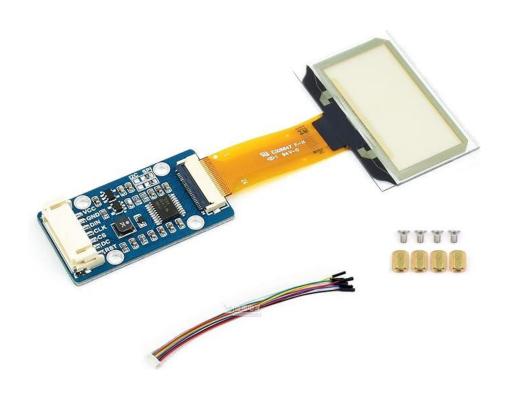


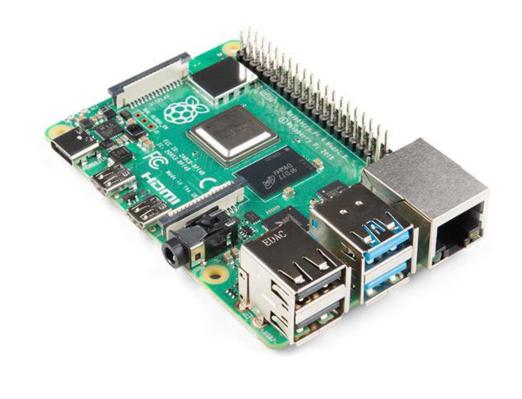


2. TRANSPARENT SCREEN



HARDWADE

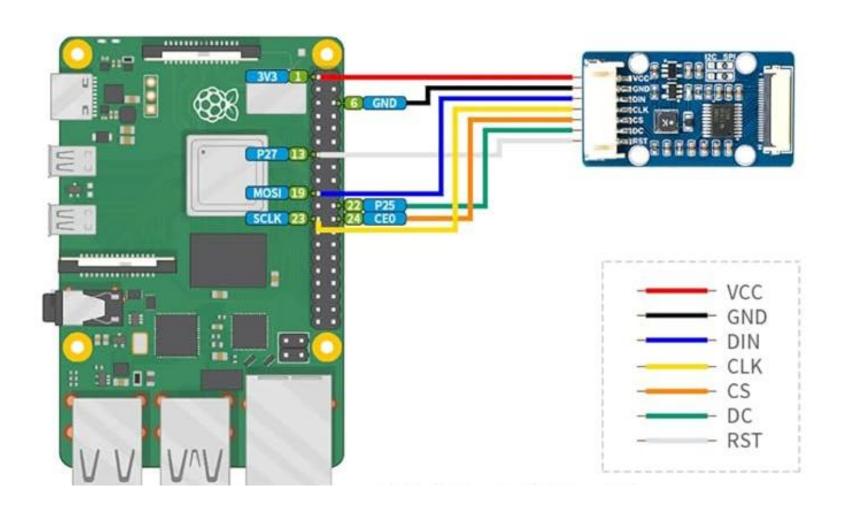




Transparent OLED

Raspberry pi 4

CONNECTIONS





LINUX!!!!!

I am not good at Linux, I just followed the following wiki and ran the C++ code for the screen and it worked, but I burned my face and the screen.







THANK YOU