



# Green Heart

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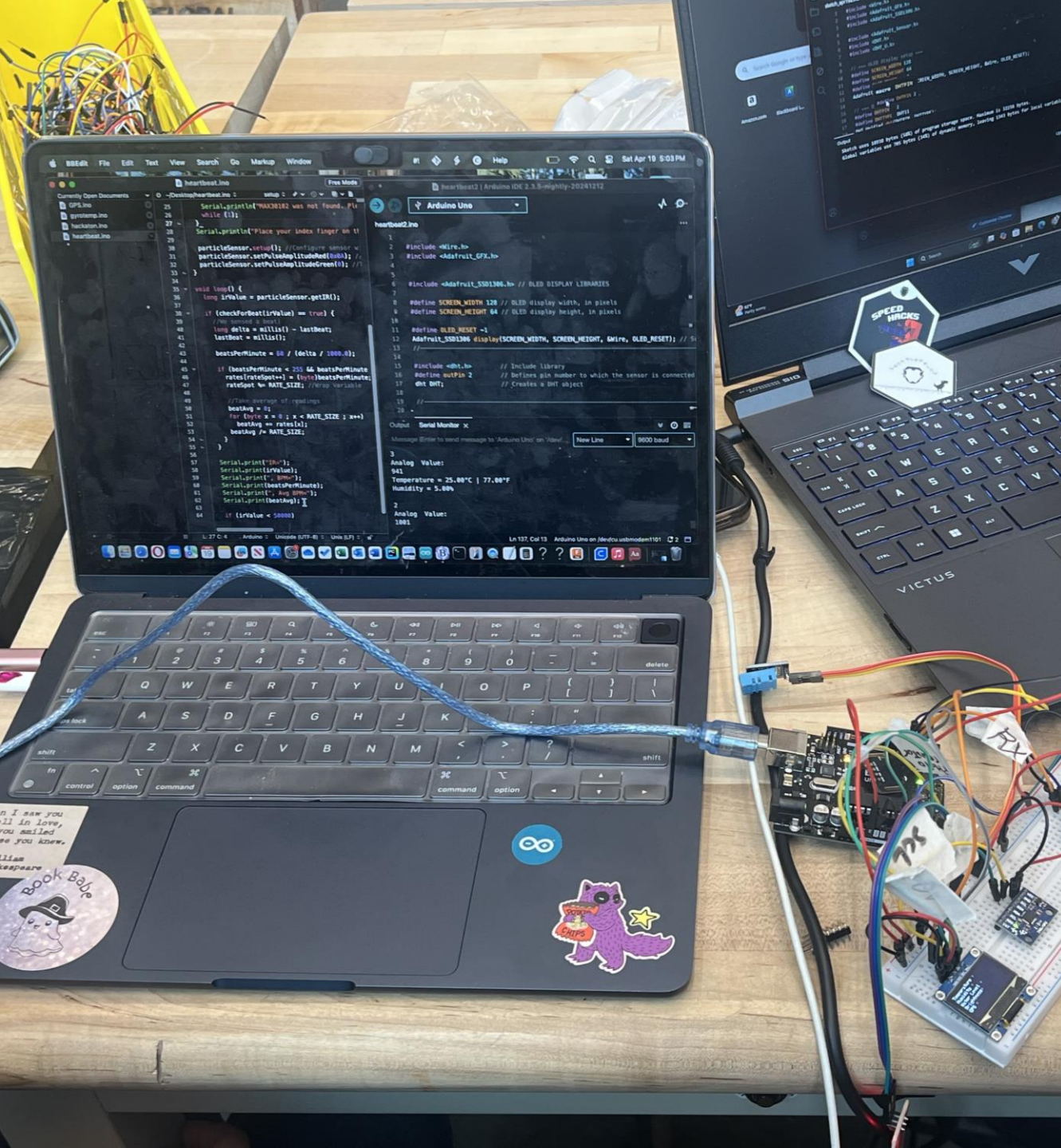
# Problem

As the issue of climate change, pollution, and global warming starts to increase it is important for scientists to gather data about these new environmental issues on the environment itself and human populations

For example:

- A new factory is created in a city that increases pollution our device can be modified to keep track of the human population by tracking water presence, light exposure, animal heart rate, temperature, geographic location, movement, and humidity. We can then use that data to push legislators to enact changes to protect the area's population
- As the issue of climate change starts affect more parts of the world it is important to track how it changes ecosystems and local wildlife patterns. Our device can be used to monitor rising sea levels and other local phenomenon. It can be attached to wildlife in a non invasive way to measure migration patterns, animal heart rate and places that are no longer visited by wildlife due to human intervention.



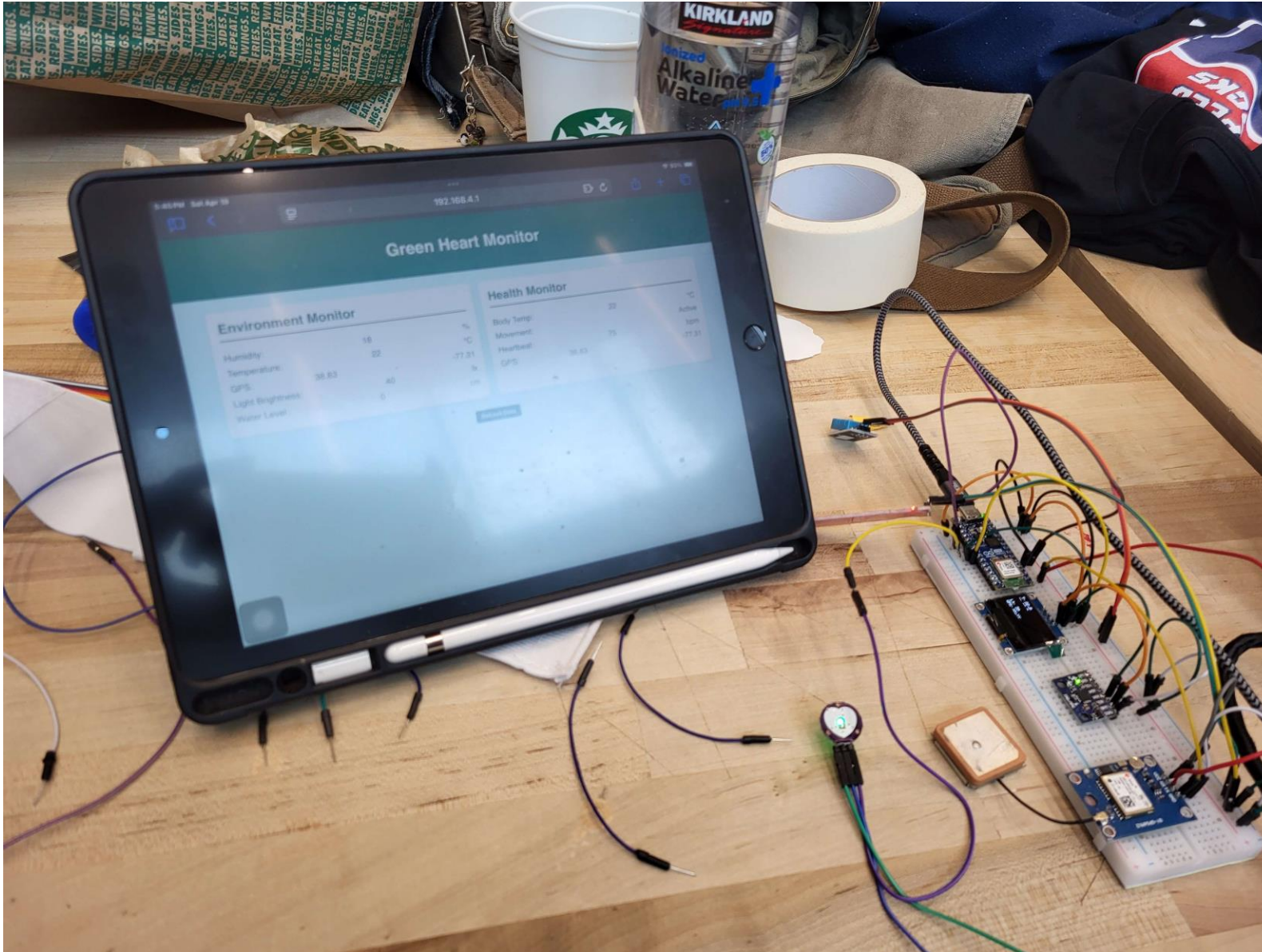


# Our mission

Our device was designed with the goal of health and environmental monitoring, doubling as both a health and environment tracker that can tell you the quality of the environmental factors such as temperature, humidity, and water level, HB GPS body temperature

We also set out to create a web server that would allow for real time access to data from gathered from the sensor





# Achievements

We created an effective IoT network with five sensors that communicates with a website hosted on an Arduino ESP32 that display information from the network



# Future Plans

Integrate with cloud storage platforms for remote data logging and historical analysis. By logging the data, we would be able to implement some form of data visualization to assess trends in the data.

