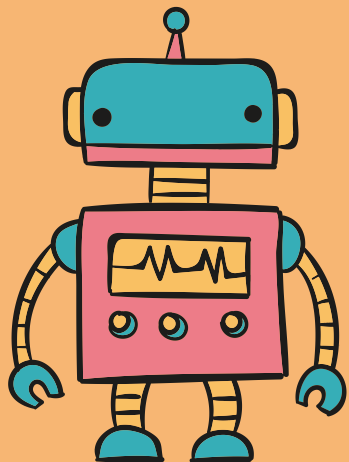


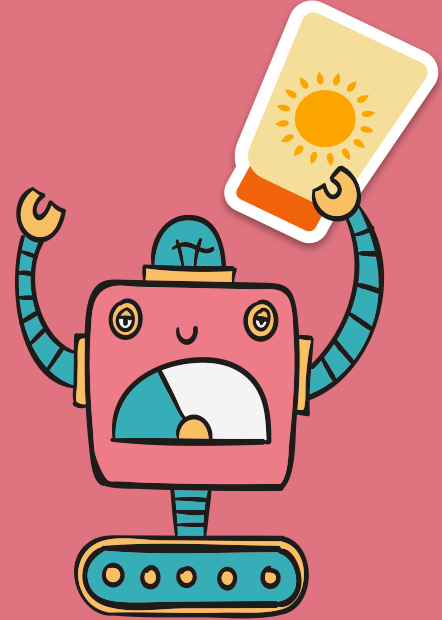
UV Robots Pitch Deck

Matt, Ben, Vaishu, Nakai



Our Idea

UV index sensing robot that dispenses sunscreen upon detection of a hand under an ultrasonic sensor. On the side of the robot will be a moving black light and a mirror for users to see how effectively they protect their skin. It will map the UV index values into a live data visualization sheet each time it is turned on and display a LCD matrix visual indicating the safety of the index for students passing by.



Inspiration

+ $\frac{3}{4}$ of our group are native Georgians and know how sunny days can be disastrous outside. Vaishu, an avid skin care lover and

occasional sunscreen wearer wants to have more reminders to wear sunscreen outdoors, especially when the UV index is high.

Matt and Ben, two swimmers at GT, have never worn sunscreen in their whole life and are amazed at the damage it causes their skin during those days of higher UV index.

Whether or not you have melanin to help protect you from sun burns, all skin receives skin damage from UV rays. **UVB** rays are causes of sunburns, but **UVA** plays roles in development of skin cancer and reducing skin elasticity that causes wrinkles and dryness. **Let's protect our skin by educating our fellow students!**





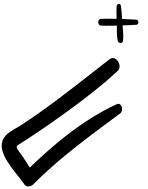
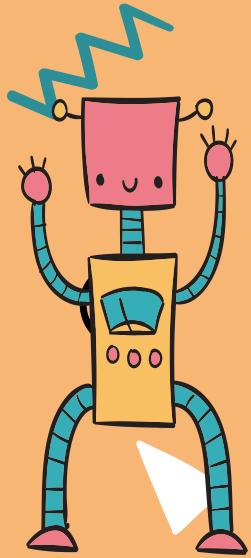
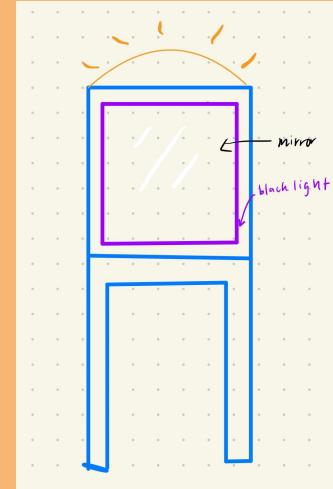
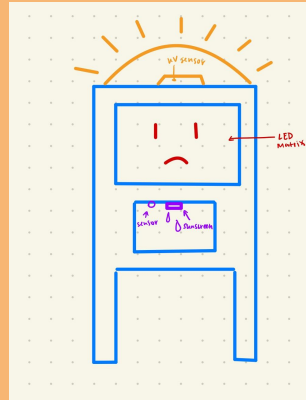
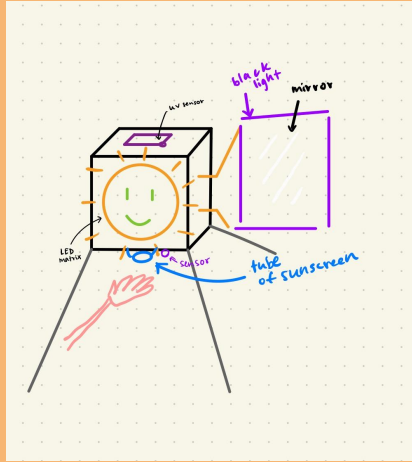
Who does what?



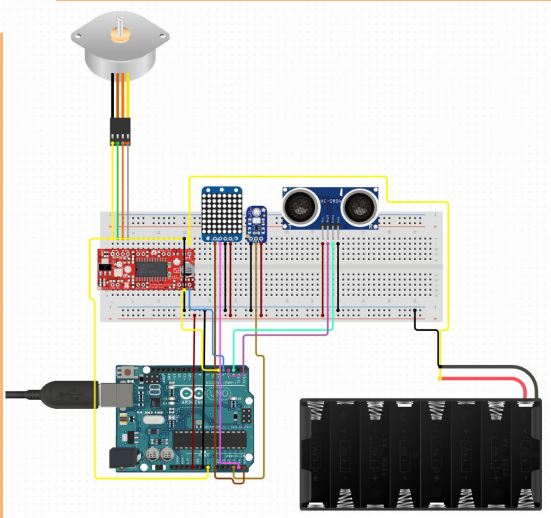
- Wiring Diagram: Matt
- Research + Supplies: Ben
- Product Design: Ben + Nakai
- Code Architecture: Vaishu + Matt?
- User Testing: Matt + Nakai
- Documentation: Nakai
- Video Production: Vaishu + Ben
- Website Blog and Development: Vaishu



Sketches

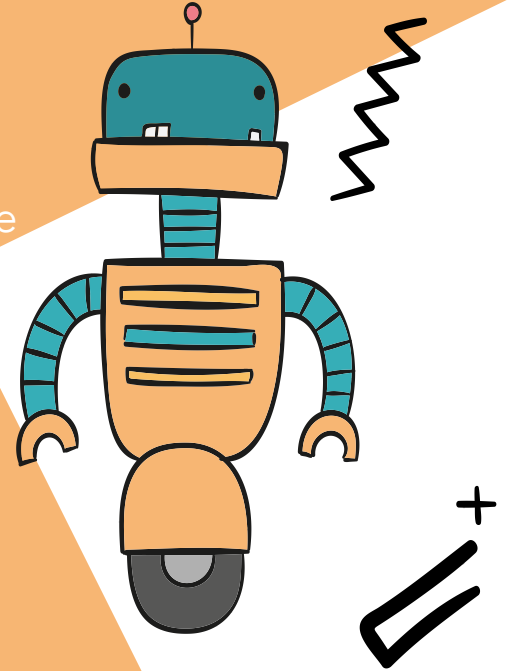


Early Wiring Diagram



- The figure on the right is representative of how all the components will fit together from a wiring perspective
- The LED matrix and the UV sensor will likely have to be soldered

- Power estimation is not final but 8 AA batteries should give enough voltage and mAh to power the device effectively and long enough



Tech Needed

- Battery Packs
- LED Matrix
- UV Sensor

