SUDOGLOVE

HARDWARE CONTROL USING HAND GESTURES

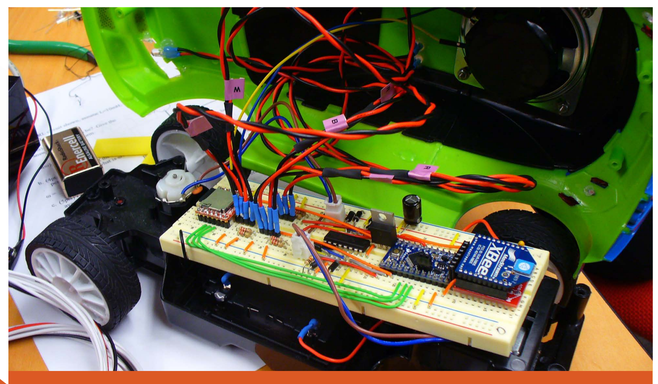
project goals

bridge gap between user and hardware

acquire and process sensor data

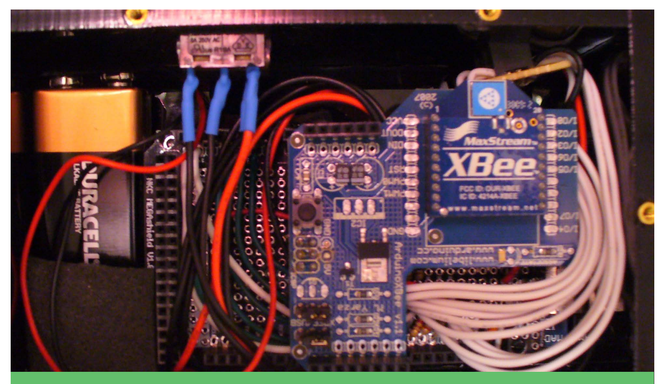
use data to control hardware

system components



hardware control platform (RC car)

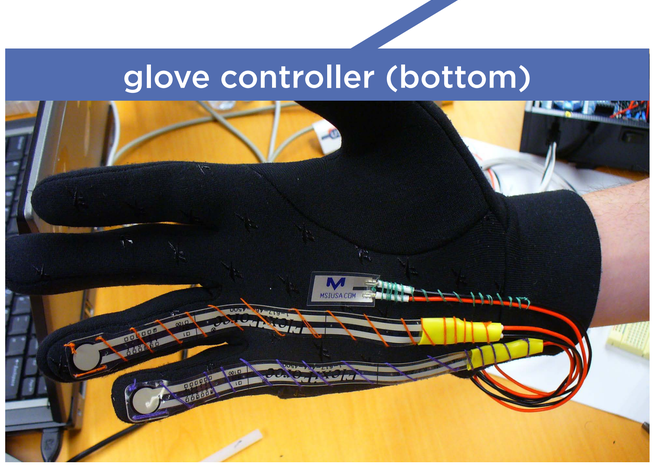
- wireless transceiver
- arduino pro mini
- speaker + driver IC
- headlights + sirens
- h-bridge control



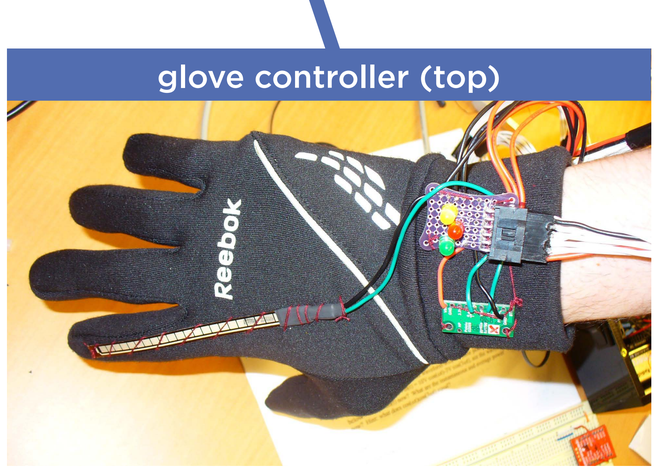
system controller

- arduino mega
- wireless transceiver
- sensor filtering
- gyroscopic data integration
- lasercut acrylic case

glove controller (bottom)



glove controller (top)



- 2D gyroscope
- piezo vibration sensor
- flex sensor
- two force sensors
- feedback LEDs

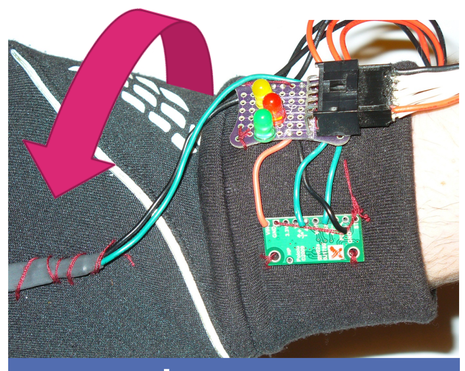
control features

accelerate

lights & sirens

reverse

honk



steer car

furthermore...

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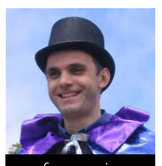
INFO4320 BUILD



françois guimbretière

open source

help improve this project
code, schematics, and more info online

http://sudoglove.jeremyblum.com