

STEPHEN RAMIREZ
 MARISSA HO
 DAVID PHILLIPS
 PHILIP RUDIO
 DANNY GONZALEZ



PROJECTING A SAFER DRIVING EXPERIENCE

CONTEXT

IMPROVING DRIVER SAFETY

HEAD-UP DISPLAYS HAVE NO NEGATIVE EFFECT ON DRIVER RESPONSE TIMES AND CAN REPLACE THE NEED FOR THE USE CELL PHONES DURING TRANSIT

MAKING HUD'S MORE ACCESSIBLE

VROOM'S DEVELOPMENT COST LESS THAN \$350. COST-CONSCIOUS DRIVERS COULD UPGRADE THEIR CARS FOR A REASONABLE PRICE

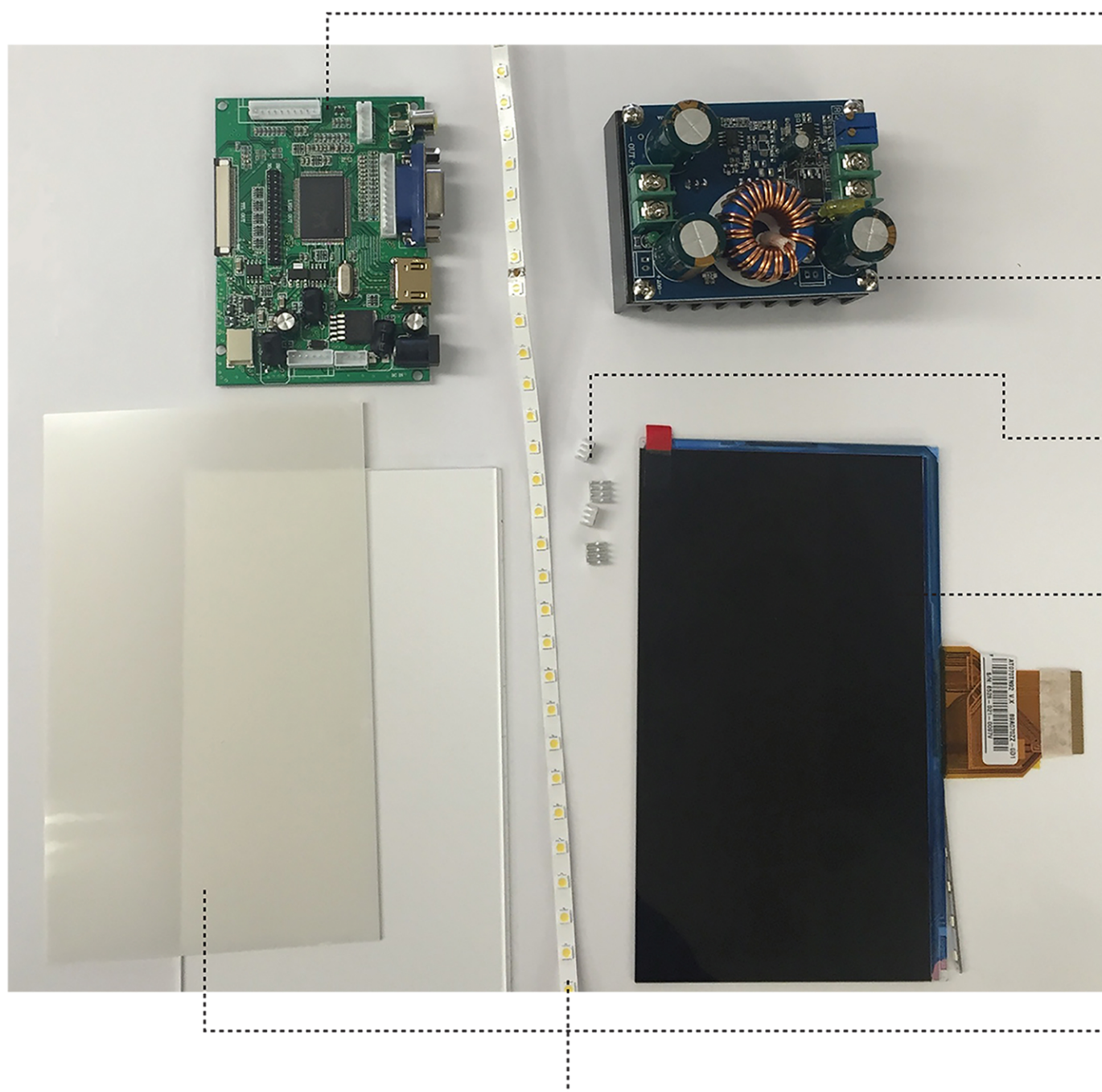
DELIVERING ACCURATE INFORMATION

OUR SYSTEM USES TRUSTED API SUCH AS GOOGLE MAPS FOR NAVIGATION, AND PULLS CAR INFORMATION FROM THE CAR'S DIAGNOSTIC PANEL

PROVIDING A SEAMLESS EXPERIENCE

VROOM WORKS VIA VOICE INPUTS, WHICH COME NATURALLY TO DRIVERS AND DOES NOT REQUIRE MUCH TRAINING

HARDWARE



DISPLAY DRIVER

RENDERS THE GRAPHICS ON OUR APPLICATION AND PUSHES THEM TO THE DISPLAY PANEL

PCB

REGULATES THE POWER FLOWING INTO THE SYSTEM

HEAT SINKS

DISTRIBUTES HEAT FROM LEDs SO THE SYSTEM WON'T OVERHEAT

DISPLAY PANEL

RENDERS OUR INTERFACE IMAGES, ACTING AS A SCREEN DISPLAY

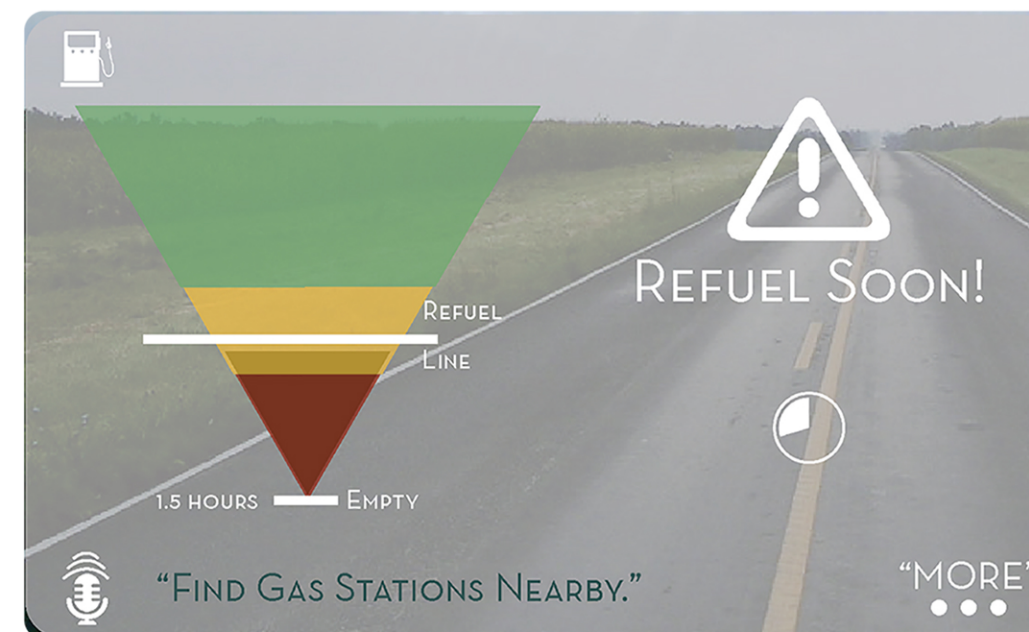
LIGHT DIFFUSER

EVENLY RE-DIRECTS LIGHT FROM THE LEDs TO THE DISPLAY PANEL

LEDs

MAIN LIGHT SOURCE FOR OUR CUSTOM DISPLAY. BRIGHTNESS IS ADJUSTABLE BY THE DRIVER

APPLICATION



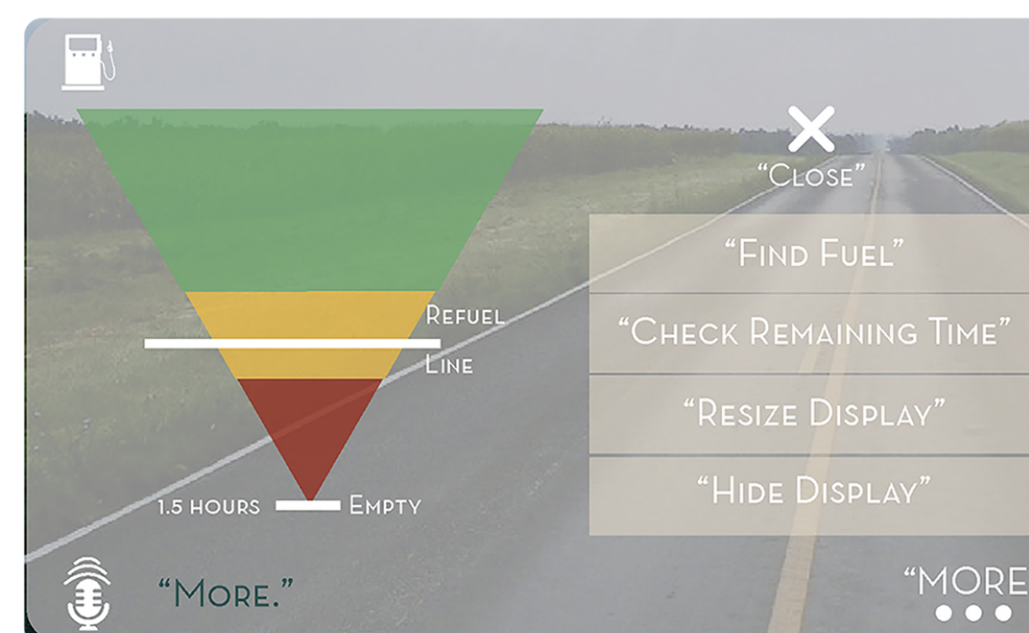
REFUEL INDICATOR

DISPLAYS FUEL CONSUMPTION AND THE RECOMMENDED TIME TO REFUEL. TIMED ALERTS HAVE A COUNTDOWN ICON



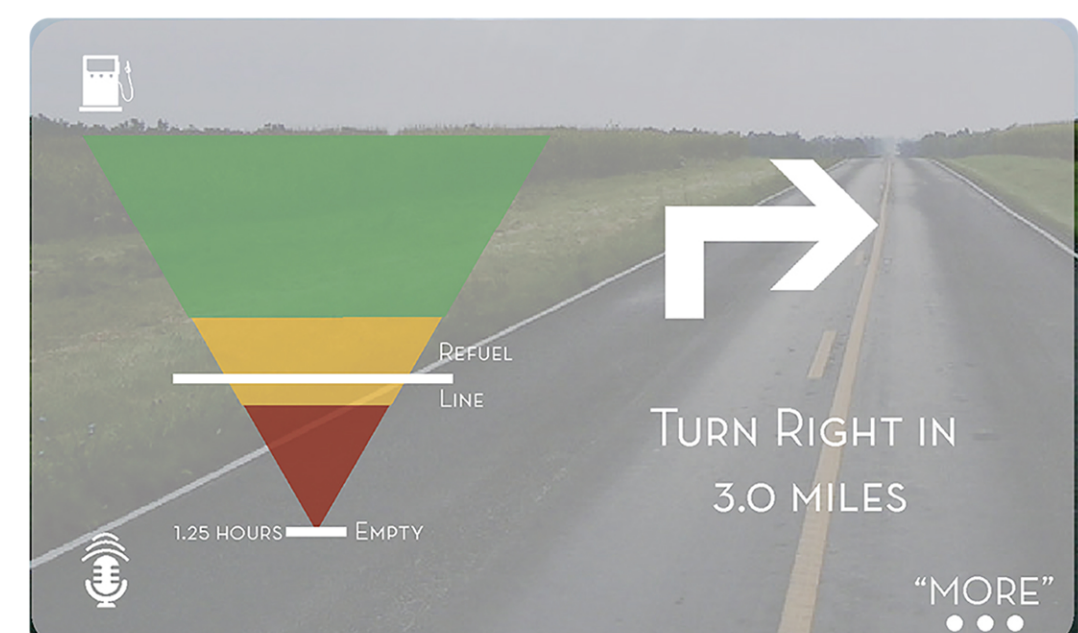
GAS STATION RECOMMENDATIONS

DRIVERS SELECT GAS STATIONS TO REFUEL VIA VOICE COMMANDS, BASED ON OUR RECOMMENDED LIST



ADDITIONAL OPTIONS

NAVIGATE TO OTHER MODULES WITHOUT HAVING TO RELY ON TIMED ALERTS. ANY ADDED FEATURES COULD EASILY BE ACCESSED THROUGH THIS MENU



WAYFINDING TO GAS STATIONS

DRIVERS RECEIVE STEP-BY-STEP INSTRUCTIONS TO GET TO SELECTED GAS STATIONS. THE FUEL INDICATOR REMAINS ON THE SCREEN