Implementation

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Tesla Model S Infotainment system. The inspiration for this project.

CAR
COMPUTER
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Spring 2015
NET 499
Network Security & Electronics
Infotainment

The purpose of this project was to make a do it yourself vehicle infotainment system; otherwise known as a car computer. A successful Car Computer will:

1. Have an integrated radio
2. Run vehicle diagnostics
3. Play from playlists
4. Have phone integration
5. Have expansion options

Why Car Computer

Car computers have a few advantages over their OEM and aftermarket radio counterparts.

1. Modularity– different systems of a Car Computer can be upgraded as needed.
2. Customizability– Car Computers

Future Work

I plan on making a few improvements in the near future. They include:

**Centrafuse to Android**– I plan on switching from Centrafuse frontend to Android OS. Centrafuse is not as stable as it needs to be for use in a car. Android also has more support.

**Use the screen vertically**– By switching to a vertical layout, I can set up multitasking; so GPS software and radio software can be displayed at the same time.

**HVAC control integration**– by integrating HVAC into the system, I will physically gain more room; so I can arrange the screen in a vertical orientation.

Current Features

Radio integration– The radio system is integrated into the Car Computer. All radio control is done within the software.

Spotify/Playlists– Plays songs from Spotify or a playlist on the local drive. These functions are also integrated into the software.

ODBII diagnostics– These features are integrated in as well. The system can read and clear check engine light codes.

Phone integration– Connects to phone through Bluetooth and can make and receive calls via the touchscreen interface.