

**Project Title:**

OpenZ

**Team Name:**

HnB Enterprises

**Team Members:**

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**Project Description:**

The goal of the project is to develop and install a custom head unit infotainment system in a motor vehicle. This unit will include lane departure detection, system / vehicle diagnostic information, and a music player. The goal is to create an all-in-one system that will inform users of the condition of their vehicle so as to prevent mechanical failures which can lead to great bodily injury while in motion, while also providing real-time analysis on the road during travel. Included will also be the expected functionality of a standard head unit to include audio control and a visualizer.

**Member Roles:**

- **Alyssa Abram:** *Front / Back End Software Engineer with a focus on Testing and Application Efficiency*
- **Joshua Bonner:** Hardware System Integration / Software Engineer
- **Richard Bowser:** Hardware Systems Integration / Software Engineer with a focus on Back End Application Functionality
- **Jonathan Edsell:** Front End Software Engineer with a focus on User Interface
- **Jacob Gallucci:** Software Engineer with a focus on Back End application functionality
- **Ariel Rupp:** Front / Back End Software Engineer with a focus on Testing and Application Efficiency

**Project Adviser:** Dr. Jeremy Blum

**Github Repository:** <https://github.com/Joshua-Bonner/OpenZ>