EcoCAR Center Console

The Technology and Innovation
- Creating professional looking GUI
- Sending CAN messages onto the CAN bus
- Controlling all the Media functionality
- Controlling all the Climate Control functionality
- Replaces all the Media and HVAC control buttons
- User friendly
- Smaller space
- Higher functionality
- Can be customized
- Adding more features can easily be implemented
- High potential for future projects

Community/Industry Impact and Value
- CAN is the industry standard
- GM CAN database

Community/Industry Engagement
- EcoCAR WSU Chapter
- GM Vehicle
- Touchscreen GUI's are standard in newer vehicles

Learning Experiences
- Learned about CAN protocol and associated tools such as CANoe
- Designing and programming user friendly GUI
- Learned about embedded Linux Operating Systems
- Design integration and validation

Further Research and Development
- Add Bluetooth, Audio, and GPS functionality
- GUI custom themes
- Real time vehicle information
  - Diagnostics messages
  - Battery life
  - Vehicle range

Team Composition
- Ahmed Alalawy – ECE
- Calvin Trescott – ECE
- Yavuz Ates – ECE
- Syed Mahmud – ECE Faculty Advisor