Advanced Vehicle Simulation and Design

- **Research interests include**: next-generation automotive and military vehicle design, simulation, and control.
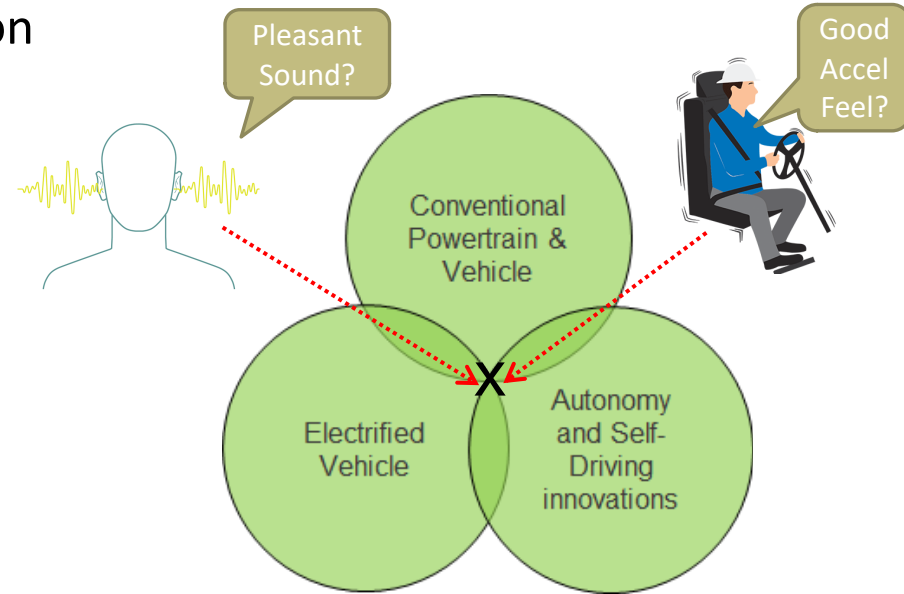
  ➤ Shift quality and vehicle driveability

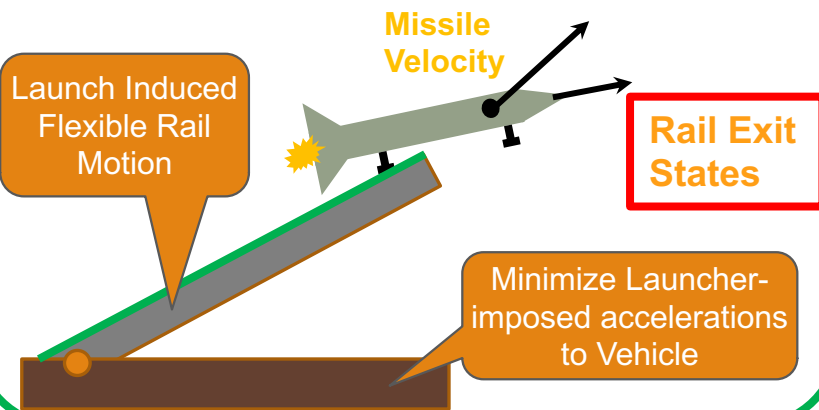   ❑ Developed patented technique on gear ratio gradient specified vehicle acceleration for optimized shift feel

  ➤ Vehicle sound quality and psychoacoustics

    ❑ Current sponsored project with FCA

  ➤ Aerospace vehicle launch dynamics

Sea-and-Land-Based Launch Events

Gear-Ratio Gradient Controlled Shift