IPRO 353: Sensor Systems in the Transportation Industry
Team Members

- Dr. Joseph Stetter-Professor of Chemistry
- Andrei Boitor-EE, Sophomore
- Kevin Lauzze-ChE, Junior
- Ryan Pendleton-MBB, Sophomore
- Beth Volberding-ChE, Junior
Challenges

- Too Large
- Too Expensive
- Not Stable
- Didn’t Work
- Parts Hard to Find
Goals ➔ Progress

• Create Business Plan-Finished with Room for Improvement
• Construct Working Prototype-Completed
• Begin Patent Application Process-Disclosure Submitted
Business Plan

• Background

• Product Summary
  – Detects Chlorine Gas
  – Mounts on Tank Car
  – Non-Accidental Release
  – 2 Chemical Sensors
  – Modular Battery Pack
  – Telemetry Option

• Industry and Market
  – Potential Outreach
  – Market Size
  – Present Value

• Customer
  – Initial-Sponsor
  – Secondary
Business Plan

- Competition
  - None Known
  - Patent/Ownership
  - Market Entrants (None Thus Far)
- Future Developments
  - Market Expansion
  - Different Applications
- Timing
  - Best Time for Entry
- Opportunity
  - Uncertainty
  - Marketing Strategy
- Recommendations for Future Teams
Business Plan Conclusions

- Viable Product
- Device Needs Work
- Safety Device
- More Research Necessary