**Problem**
- Oil dependency
  - Cost versus efficiency
- Environmental issues
  - Pollution
  - Resources

**Background**
- Three previous semesters
- Accomplishments
  - Acquiring truck
  - Systems designs
  - Deciding on zinc

**Accomplishments**

**Off-Car Fueling**
- Car
  - Zinc
  - Electrochem reaction
  - Fuel station
  - ZnO

**In-Car Fueling**
- Zinc
  - Oxygen separation
  - Car
  - ZnO + electrolyte
  - Electrolyte

**Solution**
- Buses & Cars
  - Zinc
  - Lithium
- Home & Office
  - Zinc generators
  - Wind
  - Solar

**Ethics**
- Proprietary information
  - Non-disclosure
  - Patents
  - Ethics & law
- “Green” technology

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The Car

ZnO + electrolyte

Electrochem reaction

Fuel station

Car

Electrolyte
IPRO 313
Refuelable Electric Cars

Future Work

- Continue collaboration with Zinc Air, Inc.
- Finalize fueling system designs & test
- Continue to seek funding & sponsors
- Construct commercial implementation plan
- Patent final fuel system designs

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