IPRO 313
Refuelable Electric Cars
IPRO 313
The Subteams

IPRO 313

Car
Fueling Systems
Business
Intelligence
Goal: a functional ZnO electric Car

Current tasks: mounting and securing the electric motor to structural frame
  - Issues: designing and fabricate their own custom mounting bracket
• Electric motor has been connected and bolted to the transmission
  • mass, shape, and working space are factors that have added to the level of difficulty
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Car

- fitting the mounting bracket on the motor for the first time
• Final adjustments are being made to the mounting bracket.

• Next step: install and fit in a controlling unit for the motor
Zinc Air, Inc

- Designing and building battery
The fueling system:
• Fuel tank
• Fuel cell distribution system
• Filtering
• **Goal:**
Create an off-car fueling that serves the same purpose as a gas station, but with zinc as the alternative fuel.

- Diagram
- Blueprints
- Small Scale Model
IPRO 313
Off Car Fueling System

OFF CAR FUEL SYSTEM
(FLOW DIAGRAM)
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Off Car Fueling System

- Flexible Screw Conveyor:
- SpiroFlow
I PRO 313
Off Car Fueling System

- Future Plans:
- Send Zinc Samples for Conveyor Configuration
- Test Prototype
- Construct Small Scale Prototype
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Business

• Business Promotions
  • Advertising
  • Financial investors

• Business plan
  • budget

• Public Outreach
  • Alumni contacts
  • Media
IPRO 313
Intelligence

- Patents Pertaining to All Automotive Factors
- Competitive Research
- Coordinate Inventions
- Subgroup Oversight and Intercommunications
Any questions?