# Front Engine Car

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## Concept Description:
Redesign the layout of the car from rear engine to front engine. Bolt the gear box directly to the engine. Send a driveshaft under the car to the CVT.

## Strengths
- Moves Center of Gravity (CG) forward allows for more weight over the front turning wheels  
- More responsive turning

## Weaknesses
- Complete redesign of the car, more design intensive  
- Need driveshaft-increased rotating weight  
- More driveline guards

## Opportunities
- Lay driver back further to lower CG  
- Shorter car  
- Minimize clutch misalignment  
- Solid mount the gear box to the engine  
- Move front suspension points in  
  - Don’t have to worry about legs  
  - Just have to have points on either side of engine  
- Front wheel Drive  
- Possible mid engine car, under driver’s legs  
- Exhaust straight out the hood

## Threats
- More likely to nose dive over jumps  
- Either need a 90 degree gear reduction into or out of the CVT

## Notes: