Software Requirements for Power Train

1. High Level Requirement

a) Quality of the battery

  b) Low power consumption and speed enhancement

c) Energy Generation

- Conceive an additional feature to convert energy from the wind to charge the battery

- Use pedal and break to generate energy for the battery

d) Type of transmission

1. Low Level Requirements

All power shall be provided by electricity.

Car shall use 0.3 kWh per mile at good road condition, for example at highway.

Full charged capacity shall be 30kwh, providing 100 mile per charge at good road condition.

Battery shall be fully charged at 4 hours at compatible charging points.

Car should have one single motor.

Car should be able to reach 80mph at good road condition.

No transmission.