State University of New York at Buffalo

Project Goals

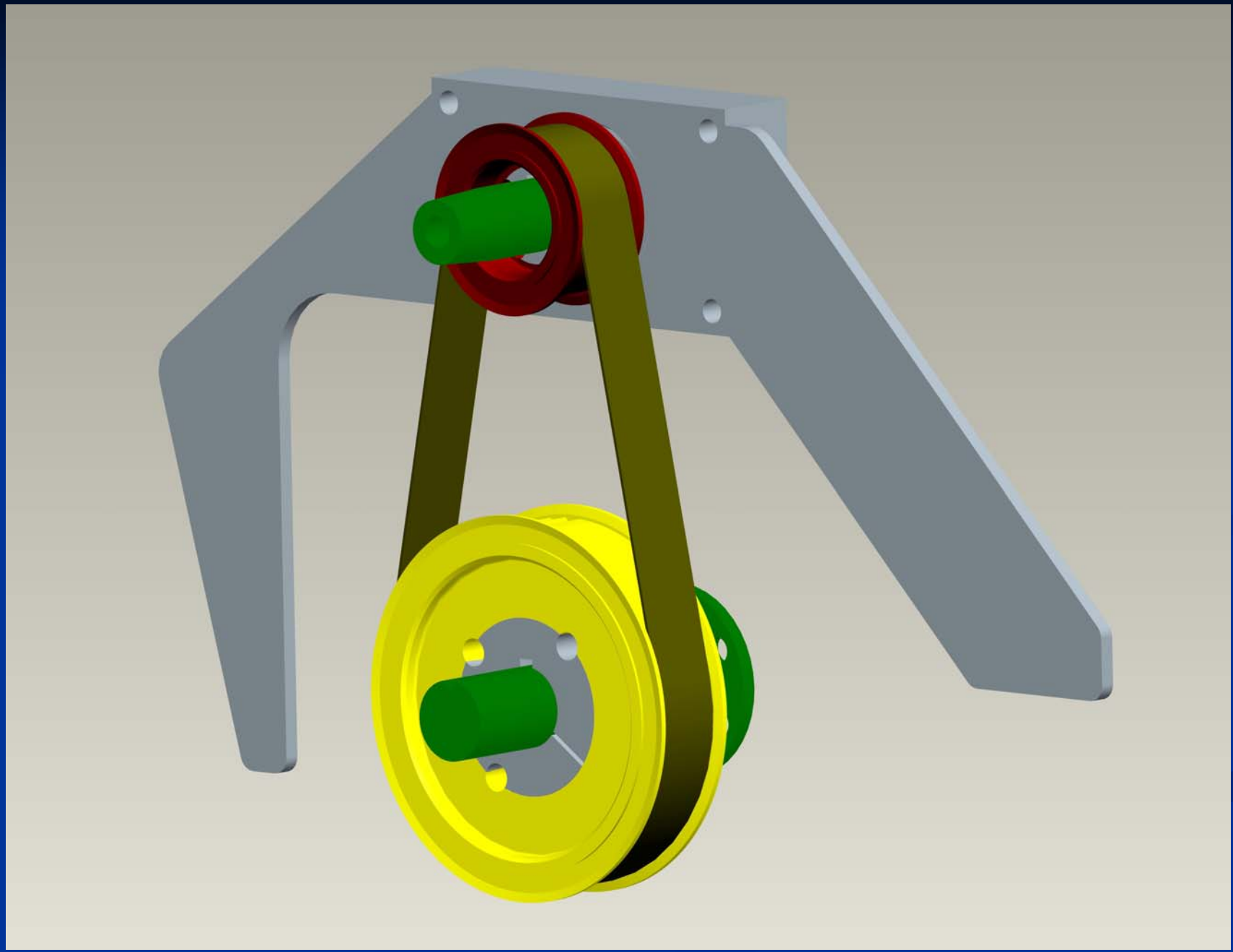
- Reduce competition weight from last year
- Implement Engine Output Multiplication Device
- Attain CSC minimum speed of 45 MPH

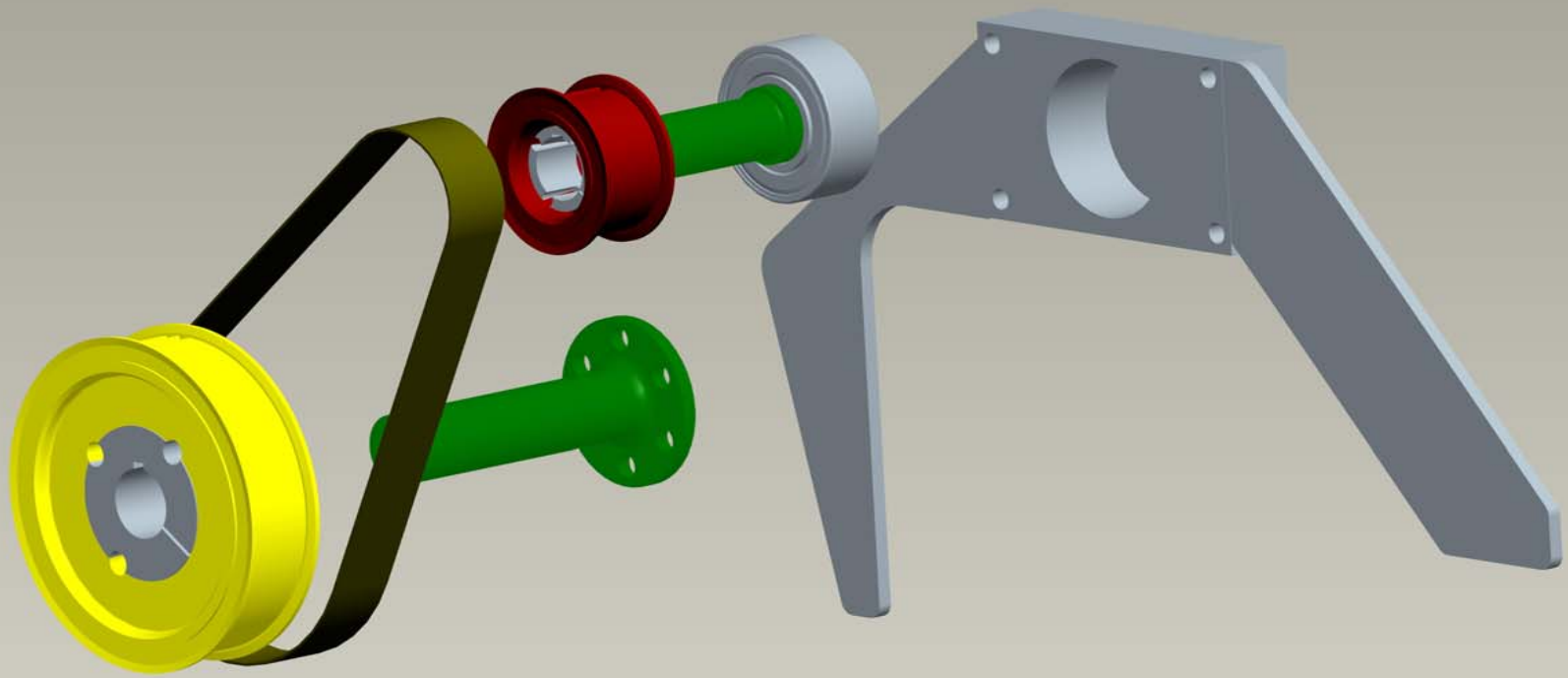
Weight Reduction

- Implemented Polaris 5 Gallon Plastic Tank
- Added Alternative Impact Trailing Arms (5.5 lb less than stock)
- Removed Intercooler and associated coolers
- 2007 Weight: 732 lb.
- 2008 Weight: 672 lb.

Engine Output Multiplier

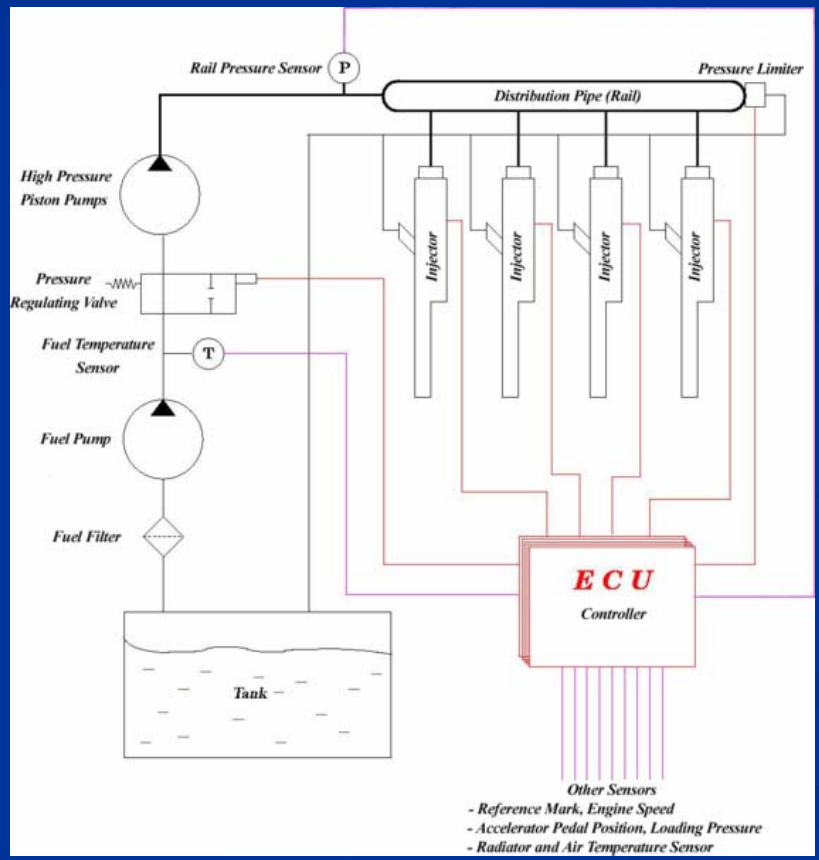
- Goal: Increase Diesel Engine's Output Speed to range of comparably powered Spark Ignition (SI) Engine in order to allow for the use of stock primary weights and springs
- Strategy: Multiply Output by 2.13 in order to attain maximum RPM of approximately 8000 RPM through the use of a synchronous belt system





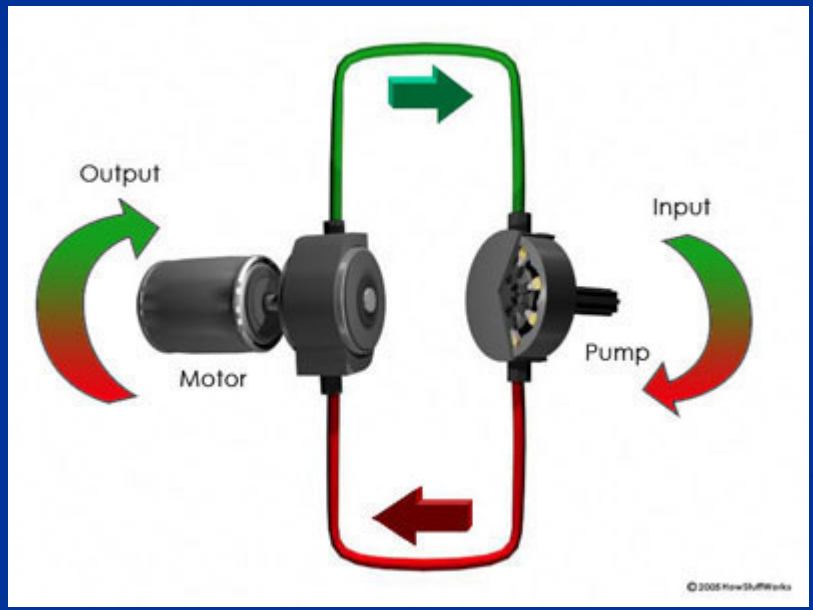
Future Goals

- Implementation of Common Rail Injection



Future Goals (ctd.)

- Possible Use of Hydrostatic Drive



Questions or Suggestions?