Objectives:

- Using knowledge gained from previous years, develop a vehicle that will compete in Greenville, South Carolina, April 8-11, 2010.

- Design, construct, and test a drivetrain built around a Comet 780 series continuously variable transmission (CVT) clutch.

- Incorporate the rear driveshaft assembly from a Polaris Outlaw 525 Independent Rear Suspension (IRS) all-terrain vehicle.

- Design the frame to maximize structural rigidity, and reduce overall weight.

Abstract:

Baja SAE tasks engineering students to design and build an off-road vehicle that will survive the severe punishment of rough terrain. Teams compete against one another to have their design accepted for manufacture by a fictitious firm. Students must function as a team to not only design, build, test, promote, and race a vehicle within the limits of the rules, but also to generate financial support for their project and manage their educational priorities. All vehicles are powered by a ten-horsepower Intek Model 20 engine donated by Briggs & Stratton Corporation.

2009-2010 Baja SAE Team
(Pictured from left to right): Kelly Vacek, Tom Byron, Jeff Huhn, J.D. Carsten, Nic Gaines, Josiah Goodman, Alex Gaff.
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