

Project Title:	2004 Olivet Mini Baja Integration and Testing
Client:	ONU Engineering Department
School Year:	2003-2004
Students:	Ted Walker
Summary:	<p>This project designs and fabricates a vehicle to compete in the SAE Midwest Mini Baja competition held in Milwaukee, Wisconsin, June 3-5 of 2004. The team consists of three two-person design groups, and a team leader to oversee integration and to coordinate testing. This report presents this project from the perspective of the team leader and investigates his contributions and roles, especially pertaining to project coordination, integration, and testing.</p> <p>Before construction of the car can begin the team must be organized, a work shop obtained and outfitted, and each system of the car designed. The team leader is in charge of keeping the team informed, connected, and moving toward the common goal. Since he is also in charge of integration, he is actively involved in the design of the car, and making sure that all of the systems (braking, steering, suspension, frame, etc.) are compatible and as efficient as possible.</p> <p>The vehicle must be able to complete the various dynamic events at the competition, including a grueling four hour endurance race. In order to assure the performance and durability of the finished vehicle, a rigorous testing regimen verifies not only the durability of the car but the performance and safety requirements as well.</p> <p>At the time of writing, the car is in the final stages of frame construction, and is awaiting fitment of the suspension a-arms and power train components.</p>

