

Project Title:	Team Olivet Mini Baja Frame Design
Client:	ONU Engineering Department
School Year:	2002-2003
Students:	Charles A. Ogborn
Summary:	<p>The Mini Baja project began with a trip to University of Illinois where we meet with their Mini Baja team to get an idea of how to start. Their team gave us various pointers on do's and don'ts when getting started.</p> <p>It took some time to put our thoughts together, but once we had a model drawing of the frame in Pro-Engineer we were able to look at it and redesign for adjustments that were needed. We had intentions of using pro-mechanica but the majority of the time we were never able to use it because of technical errors within the engineering department program.</p> <p>After the model in Pro-Engineer was finalized we constructed a full-scale model using 1.25" PVC to have a better understanding of how to build the car. Once the PVC model was constructed we could see that adjustments had to be made for the suspension. Bracing for the engine mounts were also adjusted at this time. Once we had a finalized full-scale model we started cutting the metal tubing to length and forming any angles that needed to be established.</p> <p>The process we used to construct the car after the tubing was cut and formed was to first contact our welders Ryan Bolin and Stan Deckman of Wilmington, Illinois. Ryan and Stan were very helpful in the construction of the frame. Once the project was fully underway we moved the car to Ryan's shop in Wilmington. Ryan had many tools, which we did not have, to properly construct the frame. After we got settled into Ryan's shop the production of the frame went smoothly. We were able to construct the main frame within two to three days.</p>

