



I PRO 348

Universal Car Project

Problem

- Collaborate on the web to design and specify a “universal” platform upon which a wide range of functional vehicles can be designed for developing countries



Team Objectives

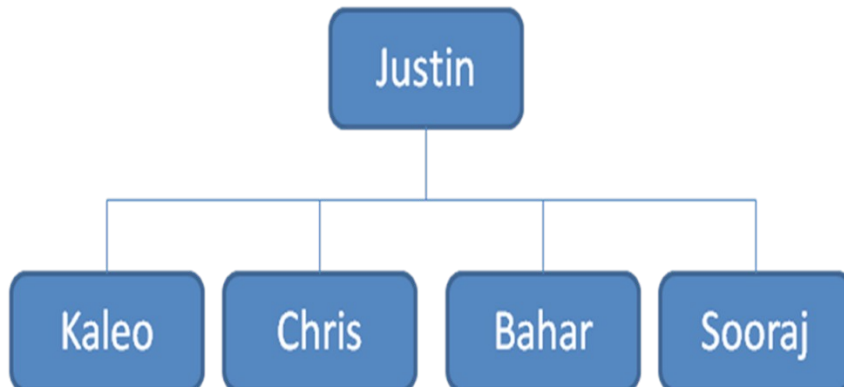
- Create a Standards organization that will design and specify a universal chassis
- Solicit contributors within and outside the automotive industry to collaborate on the design

Methodology

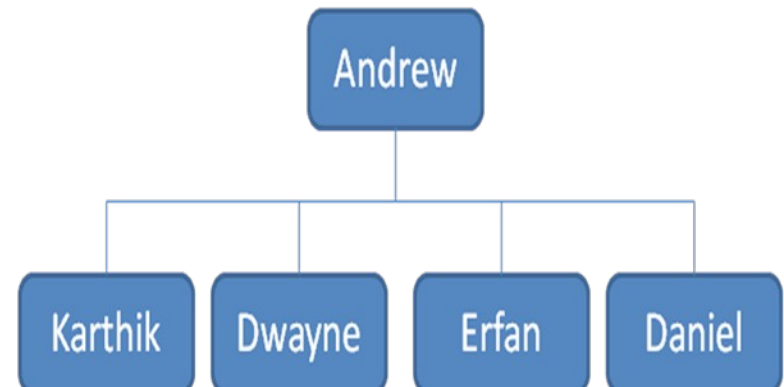
- Tech Team – Create a Website, drive traffic to the website through social Media
- Engineering Team - Research Automotive Designs, Design two sample chassis

Team Organization

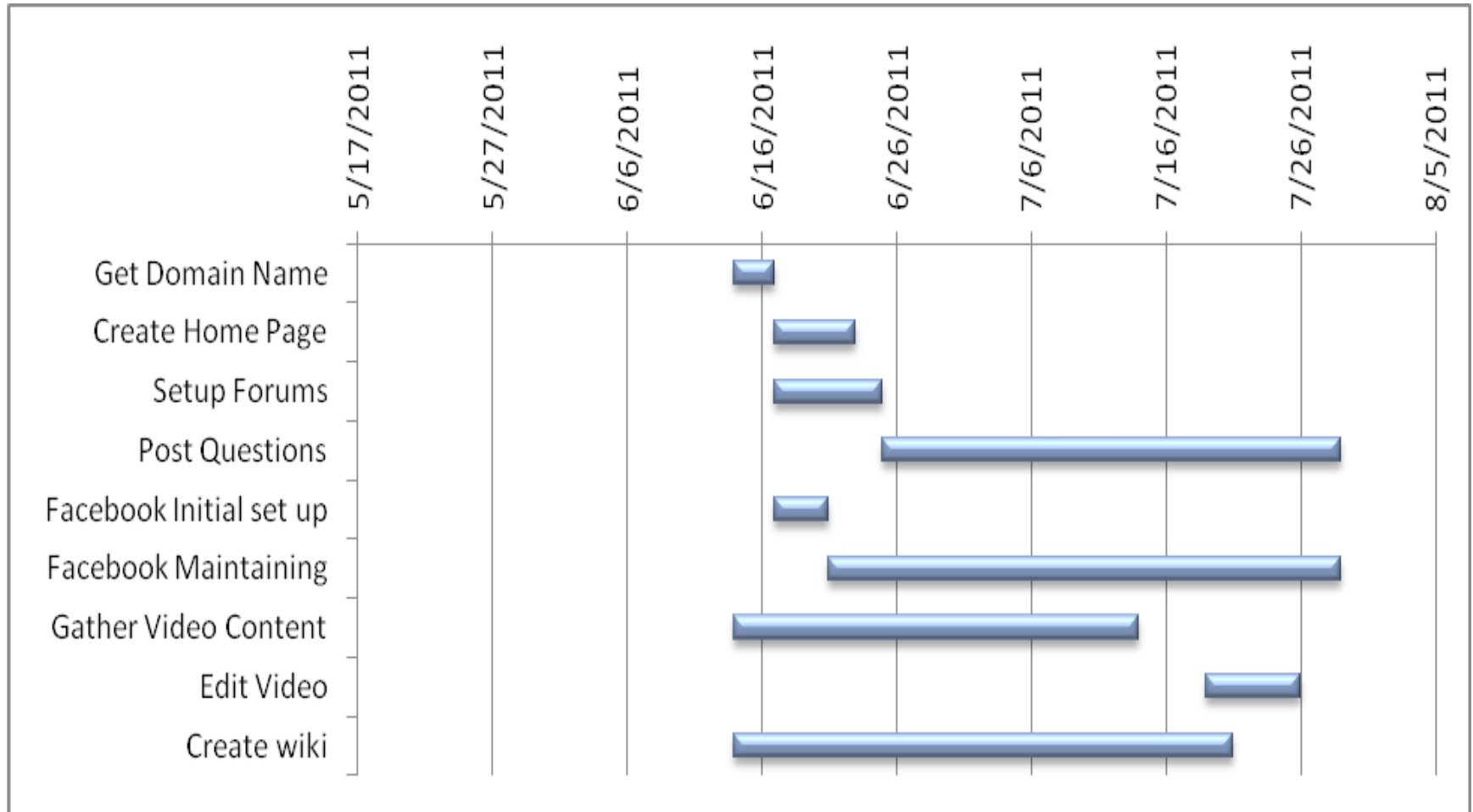
Engineering Team



Tech Team



Tech Team Timeline



Tech Team Results

- Website - <http://universalcarproject.com>

The screenshot displays the homepage of the Universal Car Project website. The main header includes the site name and a tagline. Below the header is a navigation menu with buttons for Home, Blog, Discussion Board, and F.A.Q. A search bar is located on the right side of the navigation area. The main content area features a title, a goal statement, and two paragraphs of text. The right-hand sidebar contains a mission statement, a 'Latest Updates' section with three bullet points, a 'Twitter Updates' section with one bullet point, a 'Follow' button for the project's Twitter account, and a 'Like' button for the project's Facebook page.

Universal Car Project

DISCUSSING OPEN SOURCE CAR CONCEPTS

Home Blog Discussion Board F.A.Q. Search

The Universal Car Project

Add comments

The Goal:

The Universal Car Project's goal is to help people (whether as individuals, or working as part of a company) to design and build their own vehicles. Our goal is to create a "universal" platform upon which our collaborators can build vehicles of their own design. This universal platform will allow a wide range of vehicles to be designed and built to meet the needs of developing countries or just to allow someone to create their dream car. Anyone with manufacturing expertise or even just an interest in automobiles can help design the basis chassis and then utilize the platform to design fully functioning vehicles.

The Universal Car Organization (UCO) will specify the basic chassis which can be mass produced at low cost. This is an "open source" design which anyone can utilize with a free license from the UCO. The UCP will specify the locations of the mounting points for the suspension, engine, and transmission along with a gross vehicle weight rating for the chassis. The basis chassis will allow changes in wheelbase and width, and allow the designer to modify the basic chassis to meet their needs. The individual or manufacturer can choose use the universal car chassis to create vehicles which can range from a small sports car, light truck or SUV to a lightweight electric car. The open concept also allows for most current and past automotive parts to attach to the chassis at the specified mounting points or by creating an attachment to the specified points so the part can properly attach.

The website for people and companies who want to build their own cars

Latest Updates

- UCP and Social Media
- UCP Discussion Boards
- Hello and Welcome to UCP

Twitter Updates

- Hello Universal Car Project fans. Major Updates have been made to our site such as our project overview,...
<http://fb.me/wDvuu3ji> 2 weeks ago

Follow @Ucarproject · 2 followers

Universal Car Project
Like You like this.

Tech Team Results

Website Forum



Jump to: Board index » From the admins » Welcome





Welcome

NEWTOPIC*

Search this forum... Search

0 topics • Page 1 of 1

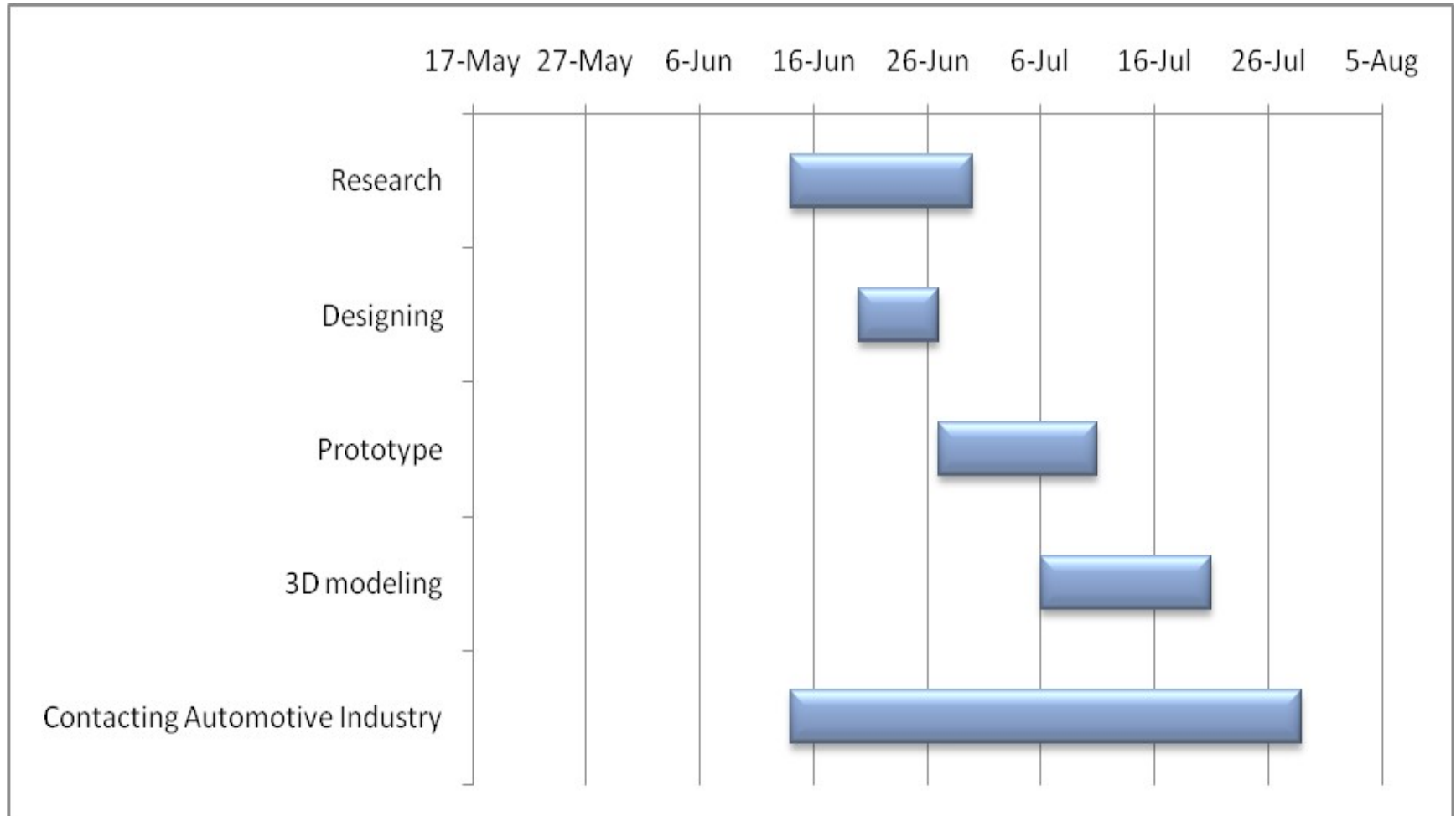
ANNOUNCEMENTS		STATISTICS	LAST POST
	FAQs by TechLeader » Tue Jul 05, 2011 7:26 pm	Replies: 0 Views: 6	 Tue Jul 05, 2011 7:26 pm by TechLeader
	About Us by TechLeader » Thu Jun 30, 2011 7:07 pm	Replies: 0 Views: 11	 Thu Jun 30, 2011 7:07 pm by TechLeader

Tech Team Results

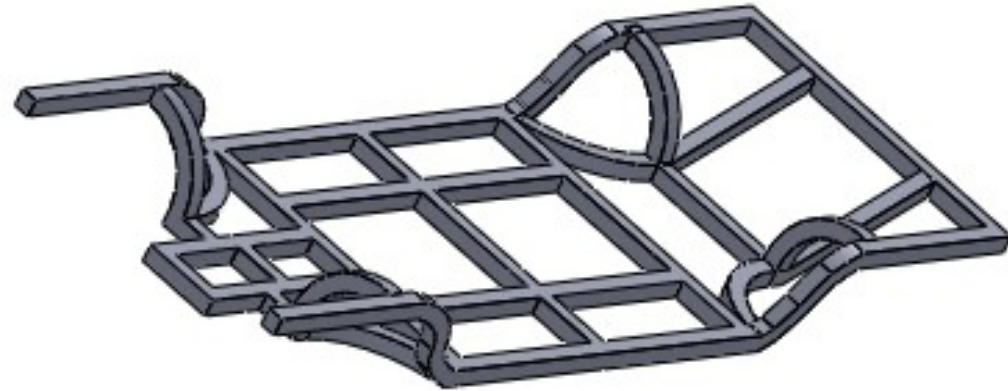
- Social Media
 - <http://www.facebook.com/UniversalCarProject>
 - <http://www.youtube.com/universalcarproject>
 - <http://twitter.com/ucarproject>



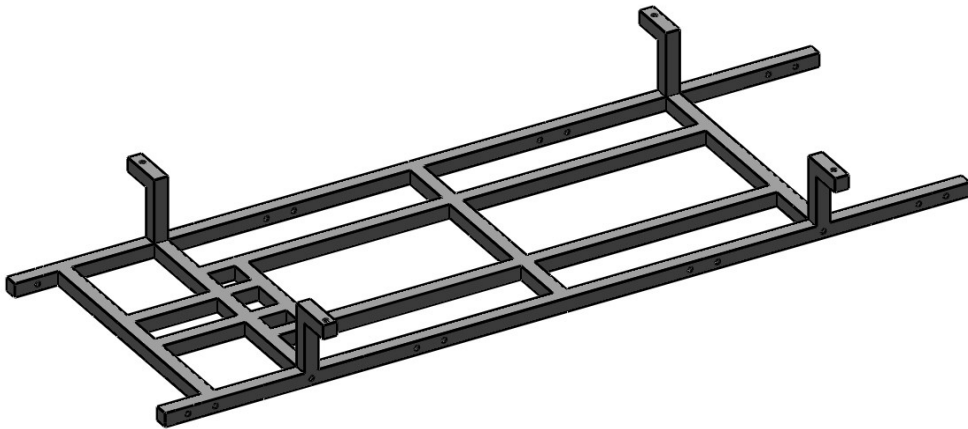
Engineering Team Timeline



Engineering Team Results

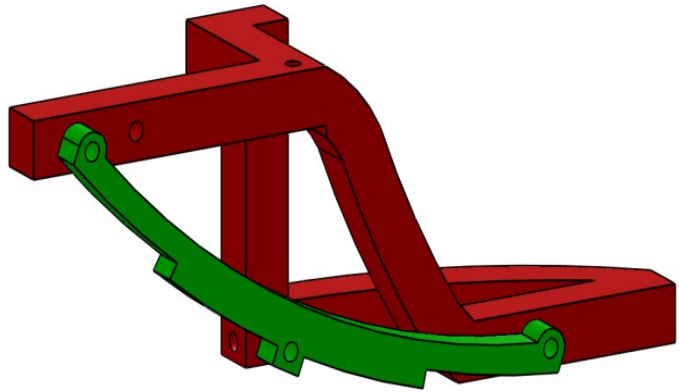


Universal Space
Frame Chassis

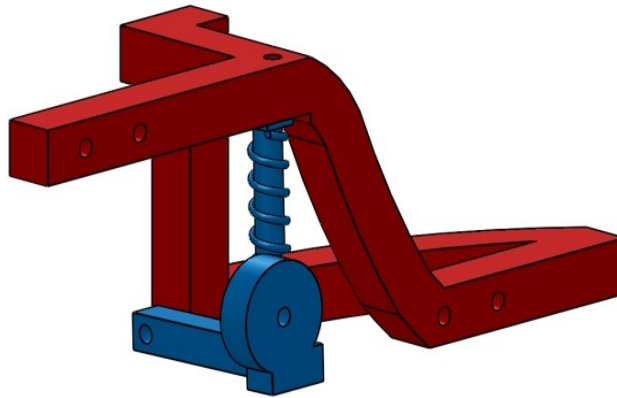


Universal Ladder
Frame Chassis

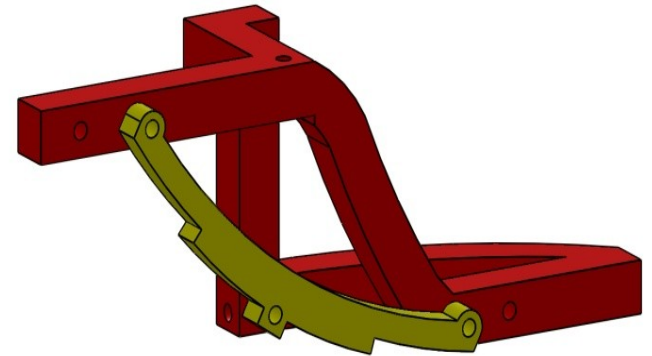
Engineering Team Results



Large leaf spring
for either a small
truck or SUV on
the Universal
Chassis



Macpherson
Strut on the
Universal
Chassis



Small leaf
spring for a
car on the
Universal
Chassis

Obstacles

- Finding Part Dimensions
- Obtaining server space and create a presentable website in a limited amount of time
- Creating a relationship with the only automotive manufacturer in Chicago (Ford)



Ethical Issues

- Safety of finished cars
- Pollutants and carbon emissions from more vehicles on the road



Conclusion

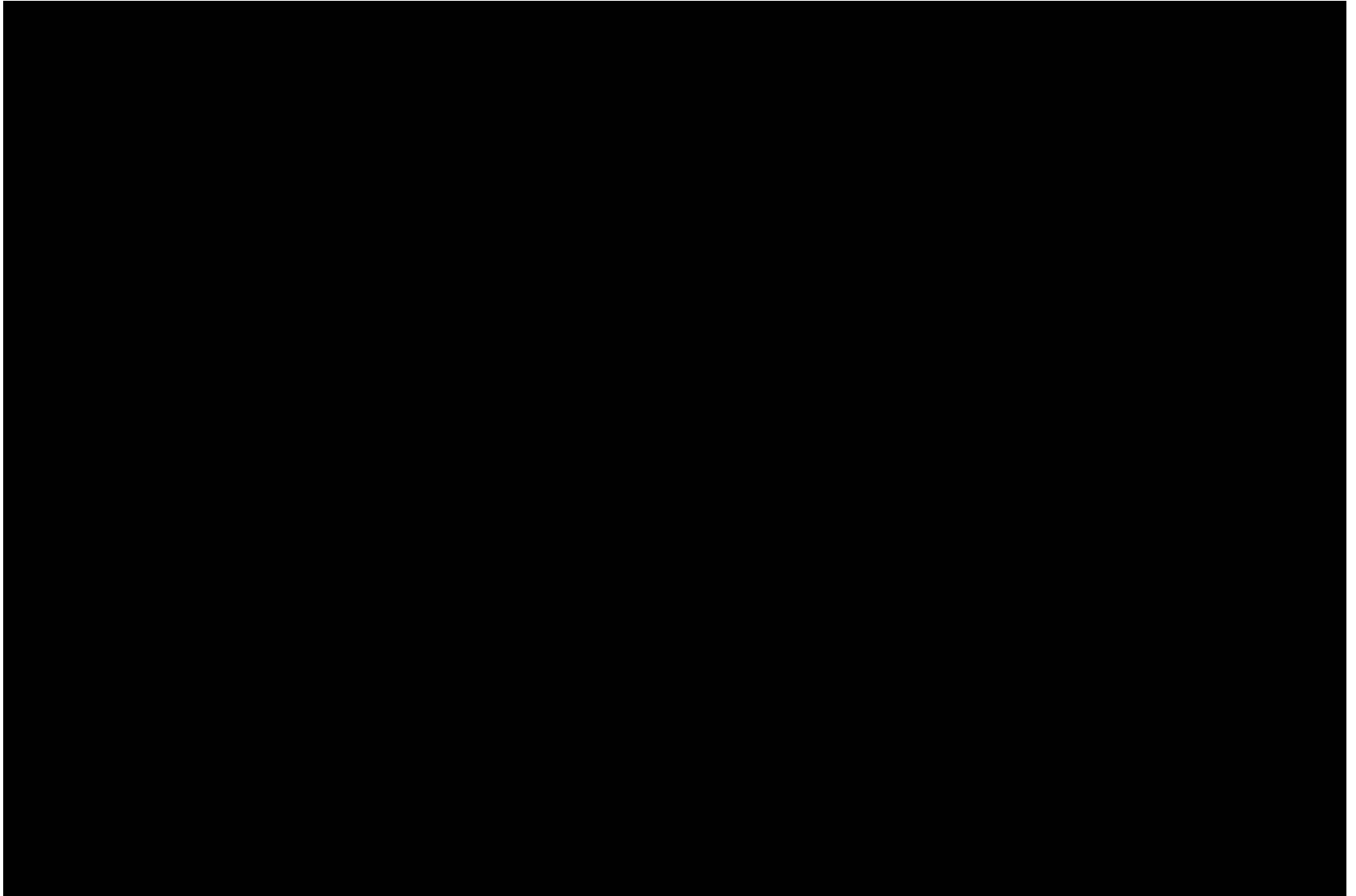
- Web and Social Media presences have been established
- Developed a sample chassis for the universal car project

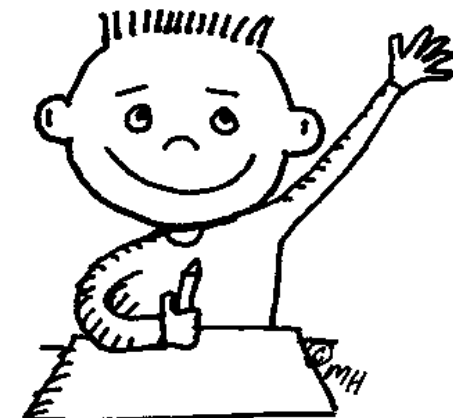
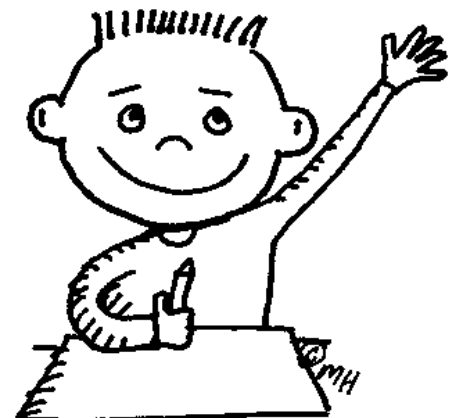
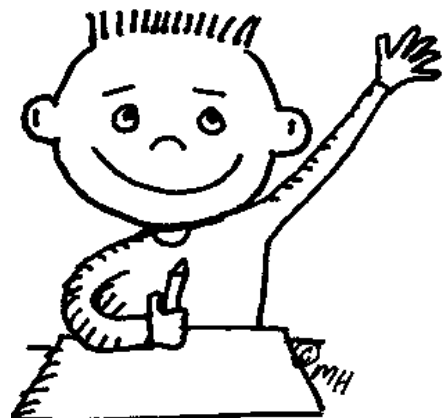
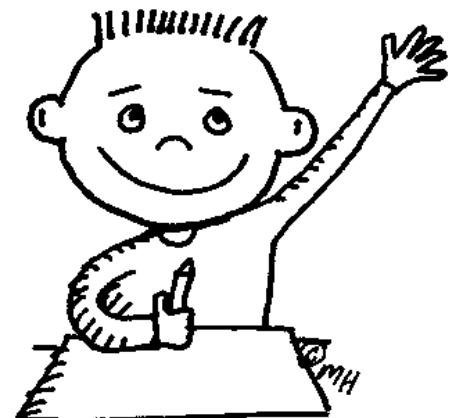
Future Intent

- Visit Automotive Factories and Engineers
 - Subaru and GM
- Find and work with an automotive company to finalize a design and pre fabricate a chassis
- Create a richer web interface to bring more traffic and interest from prospective supporters



Videooooo weeeeeeeeeeeeeee





QUESTION

QUESTION

QUESTION

QUESTION