



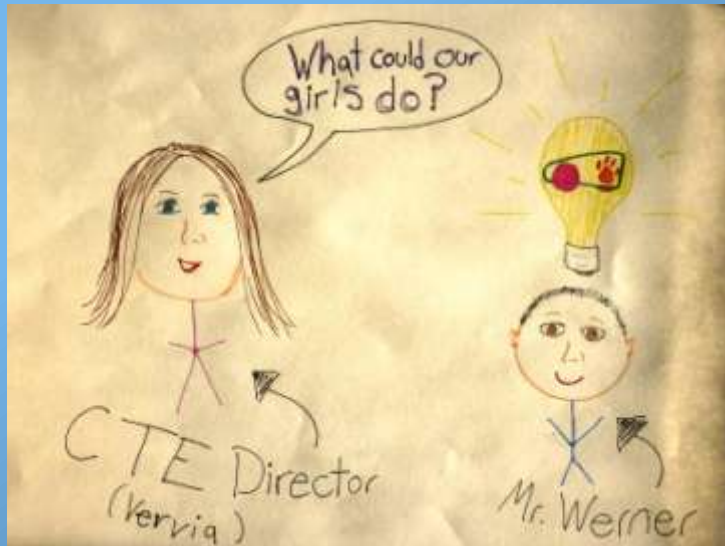
# Project Based Learning

Granite Falls High School *ShopGirls* and *UrbanAutos* Teams

by MrW Oct 2011

# Once upon time.....

December 2008



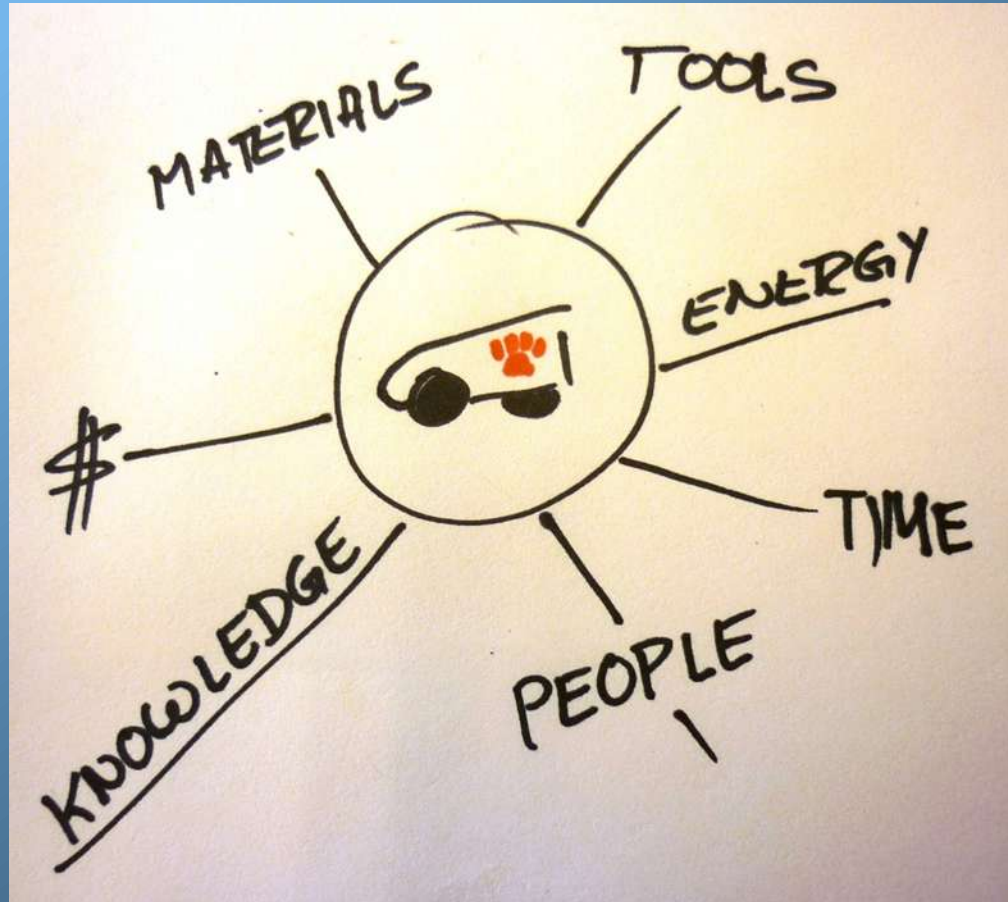
....and we are off



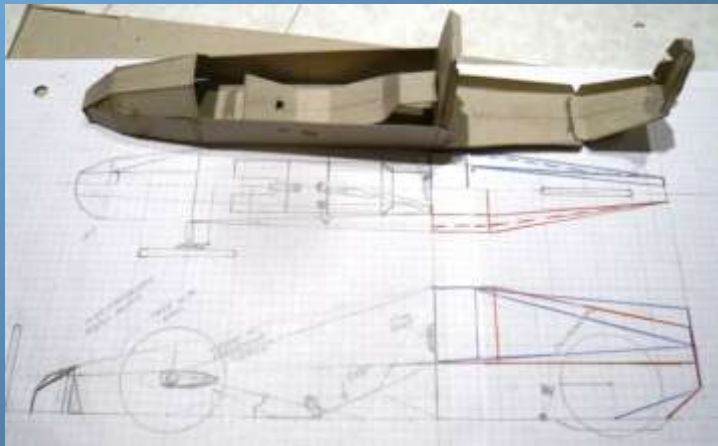
- 1-14/09  
tips from Stully Hart
- get to go to california
  - get to stay in nice hotel
  - might be able to go shopping (depending on money)
  - get to build car
  - hands on work
  - learn skills for future work
  - get to drive car once its finished
  - get out of school
  - have fun
  - make new friends
  - get to fly
  - get a tan while in cali
  - meet new people
  - hang out & have fun
  - design car
  - paint it whatever color we want



# “The 7 Ingredients for Manufacturing”



# Got Aero?



# “Made-Made” Parts

---



# Chassis - Jigs and Welding



# What a difference a year makes.....

"If you can't imagine things, you can't make them.  
And anything you imagine is real". - Alexander Calder -



ABC TV Houston Interviews



## Assessment

Car in Houston – Pass Tech Inspection - Make a recorded run = A,  
everything else = F or is it?

---



# Winnings and Records



2010 **470mpg** Diesel - Prototype

2011 **186mpg + new  
Americas Record**  
Diesel - Urban Concept Car



# Made from Steel ....

2009-2010



# On a serious diet... with a bit of Salt ☺

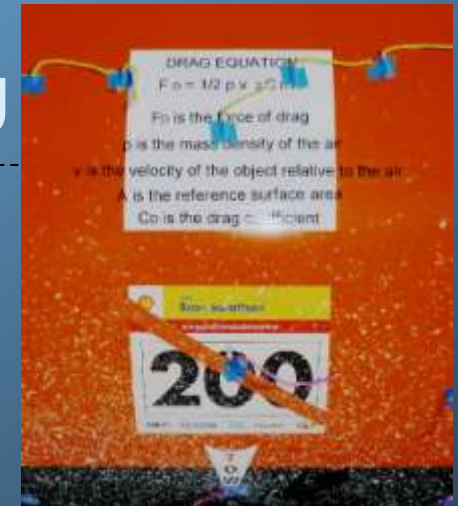


# Carbon fiber

---



# Knowledge – learned and Applied



# “The Green”



\$45K in Grants

\$8,000 in Winnings

\$28K in Sponsorships

Value of Industry Partners  
and Volunteers - priceless

Cost to District - ZERO -



# Tools and Jigs

---



# Energy



# Young Minds.....



...meet People and make friends



# Paul to the rescue – Putting the **fun** back into dysfunctional

---





# Hard learning made fun



# Dream BIG - 2008 to 2011

---



# The Results that count...



MIT  
WSU  
WWU  
Armed Forces



# Passion – Place – Purpose

---



.....and it does change lives - stay tuned



2011 – 2012 Teams

