Manitowoc County High School
Manufacturing Project

Project Mini-Chopper

Mid-Point Progress Report
January 12, 2010

Team: MPSD Team
Team Captain: Lee Wagner

the Chamber Manitowoc County

Economic Development Corporation of Manitowoc County
Take your business to the Next Level

Work Completed So Far

- Auto Cad Frame Complete (Design Still in Progress)
- Engine Parts Assembled (oil added and started)
- Completion of Measurement and Print Reading Course
- Completion of Auto Cad Course
- Completion of Machining Course
- Completion of Welding Course
- Bike Design Approved by Dr. Lanser (President, LTC)
- Research on Available Parts that Fit Team Budget
- Research Available Resources to Assist Chopper Project
- Gas Tank Mount Complete

Project Mini-Chopper

Issues/Challenges So Far

- Ideas for Rear Wheel will not Fit Chopper Frame
- Finding Affordable Parts to Fit Team Ideas
- Engine damaged during shipping (Earlier inspection should have been a priority)
- Tracking down an affordable blank wheel to fabricate
- Getting all agencies assisting us to work collaboratively

Project Mini-Chopper

How the Brand was Incorporated

Sponsored by: Lakeshore Technical College

- Overall theme is LTC's alternative energy program/LTC's 35th Anniversary
  - Wheels to be machined into 3-spoked rims to represent wind energy
  - LED lights accenting engine and powered by battery, but battery charged by solar panels
  - Nuclear energy (idea still in progress)
  - Paint scheme to incorporate LTC's mission statement and 35th Anniversary and school colors
  - All ideas approved for fabrication and build by Dr. Michael Lanser

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Value/Benefit of Tour of Sponsors

- Attain Ideas for Future Employment
- See how Real Businesses Operate
- Gather Ideas About how Technology is Developing
- Learn the Technical Skills Needed to be in the Manufacturing Field
- Understand how Manufacturing has Changed and is Safe
- Realize that Manufacturing is a Process Involving many Steps
- Acceptance that more Education is needed to Enter the Manufacturing Field

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Next Steps

- Bend, machine, and weld frame
- Mount engine
- Continue to look for affordable parts

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Budget

Part/Component	Spent to date	Anticipated expenditure	Subtotal
			$2,500.00
Engine (supplied)	$916.40		$1583.60
Parts & Tubing (supplied)	$321.31		$1262.29
Battery	$94.00		
Wheels		$200.00	
Front Forks Kit		$175.00	
LED Lights		$95.00	
Fenders		$150.00	
Headlamp & Tail Lights		$75.00	

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Questions?

Project Mini-Chopper