

Manitowoc County High School Manufacturing Project



Project Mini-Chopper

Mid-Point Progress Report

January 12, 2010

SCHOOL DISTRICT OF



MISHICOT



Team: Mishicot

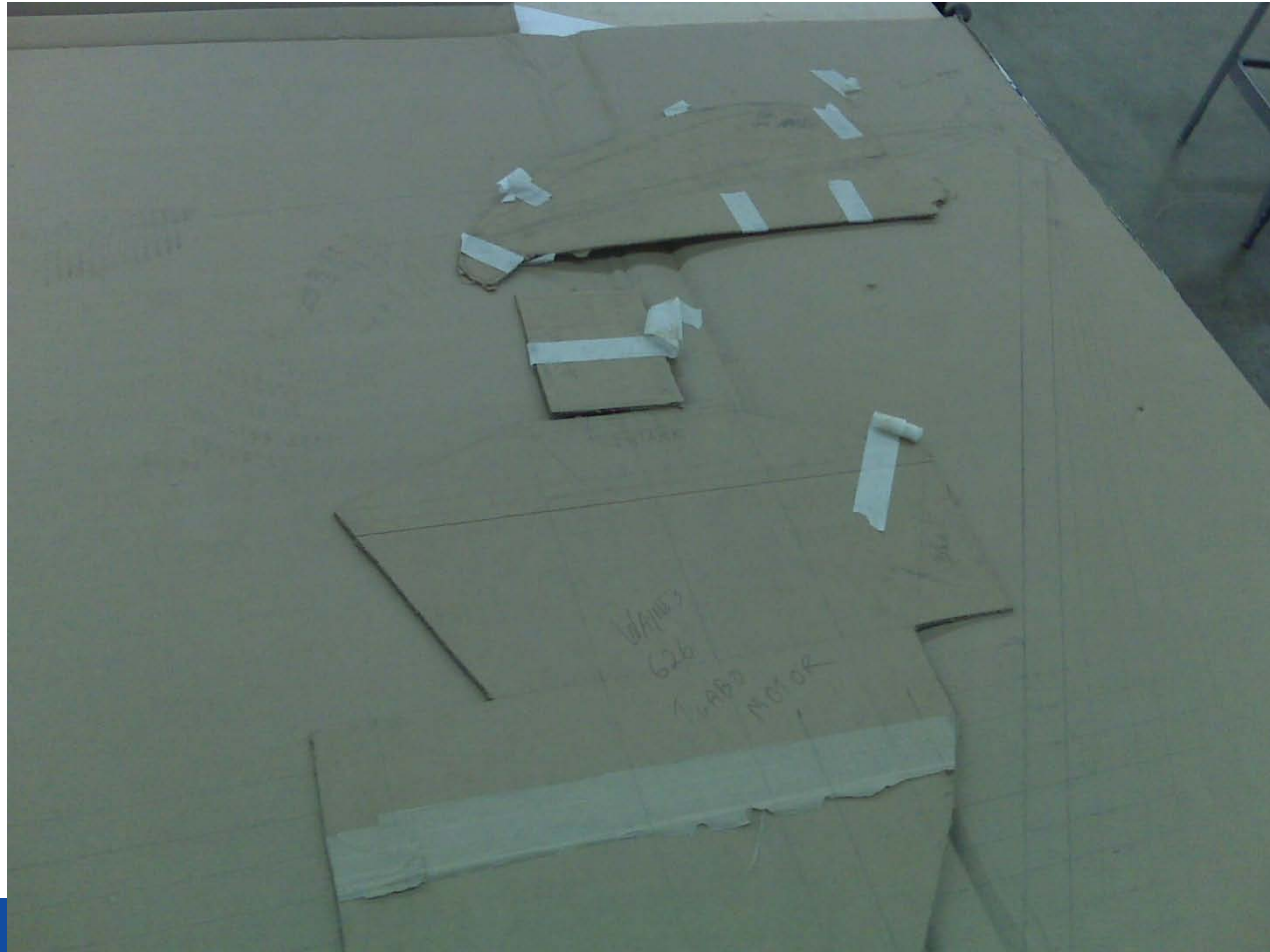
MEMBERS: Wayne Bubolz, Cory Schmidt,
Mickenzie Meissner, Paige Miller, Ryan
Finnel, Jason Pohl, Josh Mueller, Cloee
Anderegg, Quentin Tesarik

Work Completed So Far

- Engine stand complete with engine ready to be fired.
- Frame stand/jig almost finished.
- Wiring harness complete(?)



Full Scale Mock Up

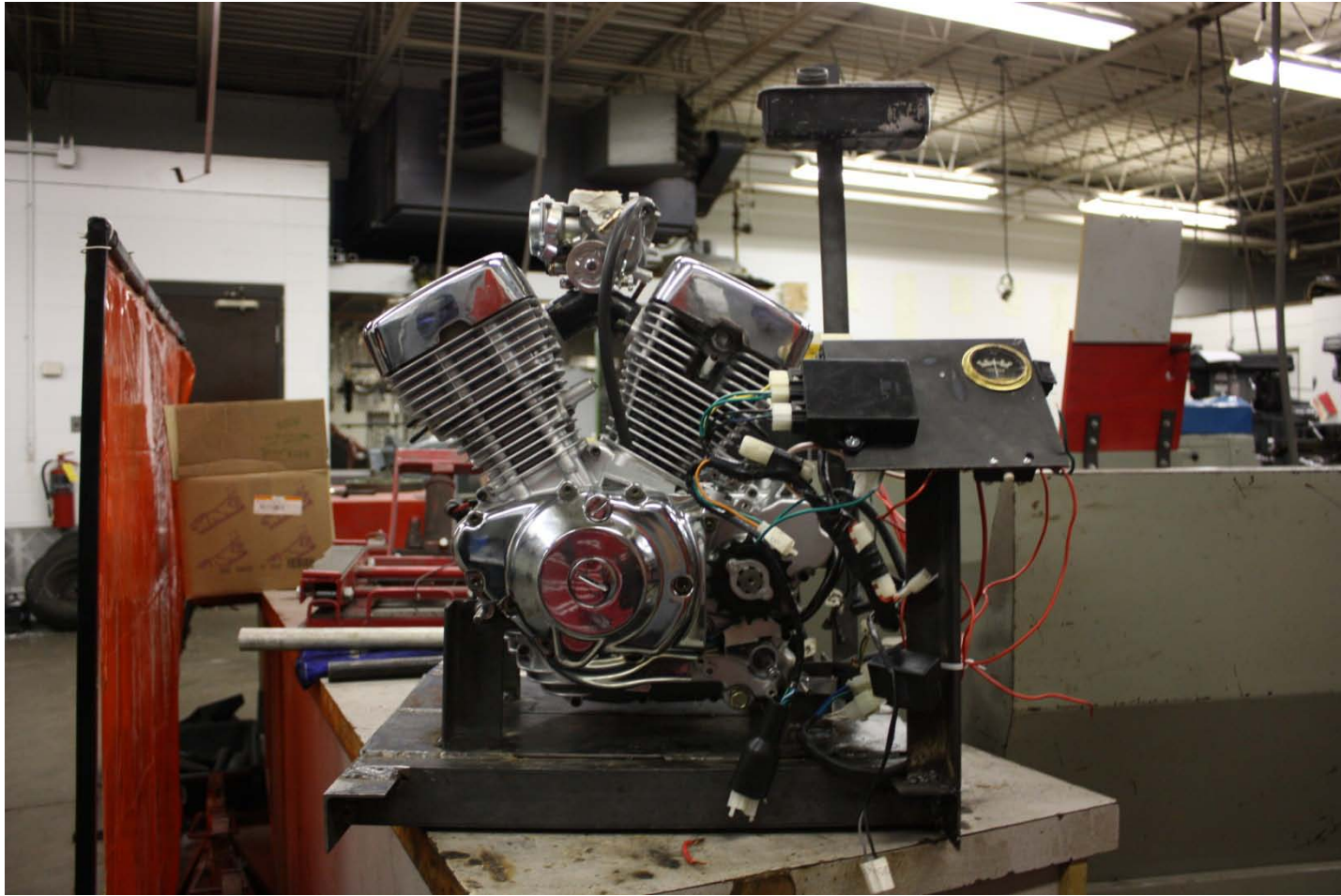


Manitowoc[®]



Project Mini-Chopper

Engine stand ready to fire...



Frame stand



Issues / Challenges So Far

- The wiring harness – deciphering which plugs do what, and which wires go where.
- Time to work on mini-chopper has been limited by meeting times. No “class” to bring everyone together. New class to be offered next year to fix this problem.
- Reaching consensus on a frame design without in house CAD software.
- Reaching consensus on “special” parts without in house CAD software.



How the Brand was Incorporated

- Logo in the paint on the gas tank.
- Embroidery on the seat.
- Battery box is going to be an ice machine.
- Snowflake will be incorporated into various structural points on the mini-chopper as well.



Value/Benefit of Tour of Sponsors

- Learn about the different companies/sponsors and what they do.
- See what options are available locally for manufacturing.
- Help show our support for the other teams.
- Help us get a better understanding of the other teams' sponsors and their progress.



Project Mini-Chopper

Value/Benefit of Manitowoc ICE as our sponsor

- Set up Gantt chart to help with time management issues.
- Draw the frame using their in-house CAD software, and deliver a full scale print.
- A group of contacts that are willing to work with high school age students.
- A great resource for the design process and relating it to real world manufacturing issues.



Next Steps (By the end of January)

- Get the motor test ran at T.A. Motorsports.
- Get the frame bent up to the exact measurements on 1/13/10 with Chris Rusch at RMD in Two Rivers.
- Put the finishing touches on the frame stand and weld the frame.
- Have remainder of parts machined at Mishicot High School, as well as at Modern Machine with the help of Scott Zahn.
- Final Paint scheme approved with painter and sponsors.



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
Wheel assembly, chain, front assembly, rear fender, air filter, shipping.	\$409.89		852.40



Questions?
Thank YOU for this
exciting opportunity!!!!



Manitowoc®



Project Mini-Chopper