



Cyclone Power Pullers

Iowa State University's 1/4 Scale Tractor Pulling Team

MAY 2013 EDITION

A-Team Update

The A-Team has been hard at work this spring semester finalizing designs and ordering parts. At the beginning of the semester, a lot of time went into the completion of the design work. One batch of sheet metal parts were ordered and assembled so the team could take a look at their current design. The A-Team tested the functionality of much of the operator's station focusing on the steering column. The steering column was a new design which involved more adjustability to accommodate a wide variety of operators. The design proved to be what the team was expecting. Other areas were tested as well such as the frame, floorboards, and battery box which is between the seat and frame.

More recently final parts have been ordered and many are starting to arrive on campus. The fabrication of the final build has begun and will be picking up fast as the semester comes to an end. The team was also very busy recently, completing the written report for competition. That included explaining the team's design decisions, updating costs for parts for the cost report, and defining the team's marketing pitch. As parts continue to arrive, the team will be hard at work finishing the final build for competition which is quickly approaching. The team has worked very hard this year, and they are very excited for the finished machine to drive off the trailer at competition. This our last newsletter before competition. The annual ASABE 1/4 Scale Competition will be held in Peoria, IL at the Expo Gardens from May 30th until June 2nd. We are looking forward to seeing everybody there!

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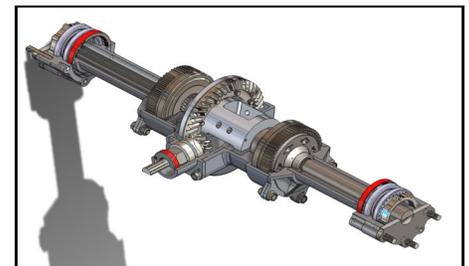
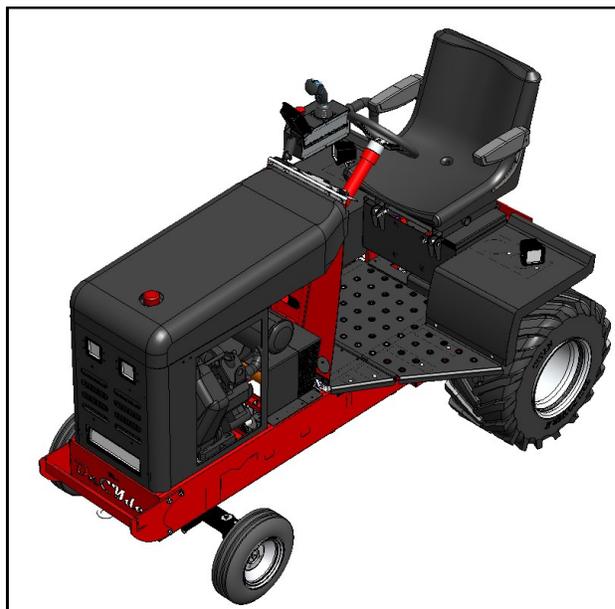
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Left: Final 2013 SolidWorks Model of the "DeCyder"

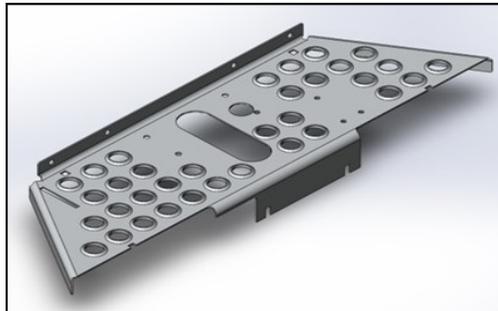
Above: Rear Axle Designed by Junior Cody Brown

“Being on X-Team has helped me tie my coursework to real-life situations” - Clayton Hamilton

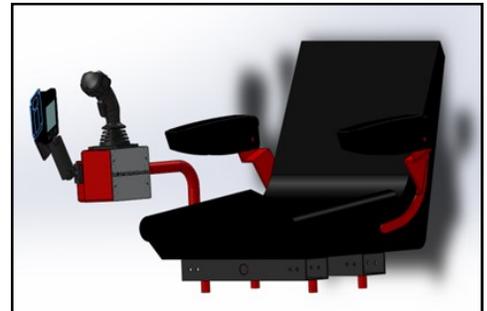


Cymon Sez 2012 X-Team Update

Since January, X-Team has been implementing new designs and ideas into “Cymon Sez”. Some of these ideas include: increasing manufacturability and comfort of operator seat, improving rigidity of floorboards, and adding strength to the frame rails. This May, X-Team will be taking the improved “Cymon Sez” model to Peoria, IL to compete in the X-Team competition against other universities. By starting with a very reliable tractor, this year’s X-Team had time to focus on small details, which will help push them to the top of the pack during competition.



Above: Floorboard Revision to “Cymon Sez”



Above: Seat Revision to “Cymon Sez”

Farm Shows

This semester the Cyclone Power Pullers attended the Iowa Power Farming Show in Des Moines at the Well’s Fargo Arena in January, and the Triumph of Ag Expo in Omaha in March. These show spaces were graciously donated to the club by the show companies. These farm shows continue to provide the club with the opportunity to outreach to new companies for support and sponsorship. They also provide club members with opportunities to gain valuable experiences such as networking and potential career opportunities.



Left: Members @ the Triumph of Ag Expo.

From Left to Right: Alex Haight, Nick Price, Brian McEvoy, Dan Killpack.

Not Pictured: Eli Peterson

New Shop Update

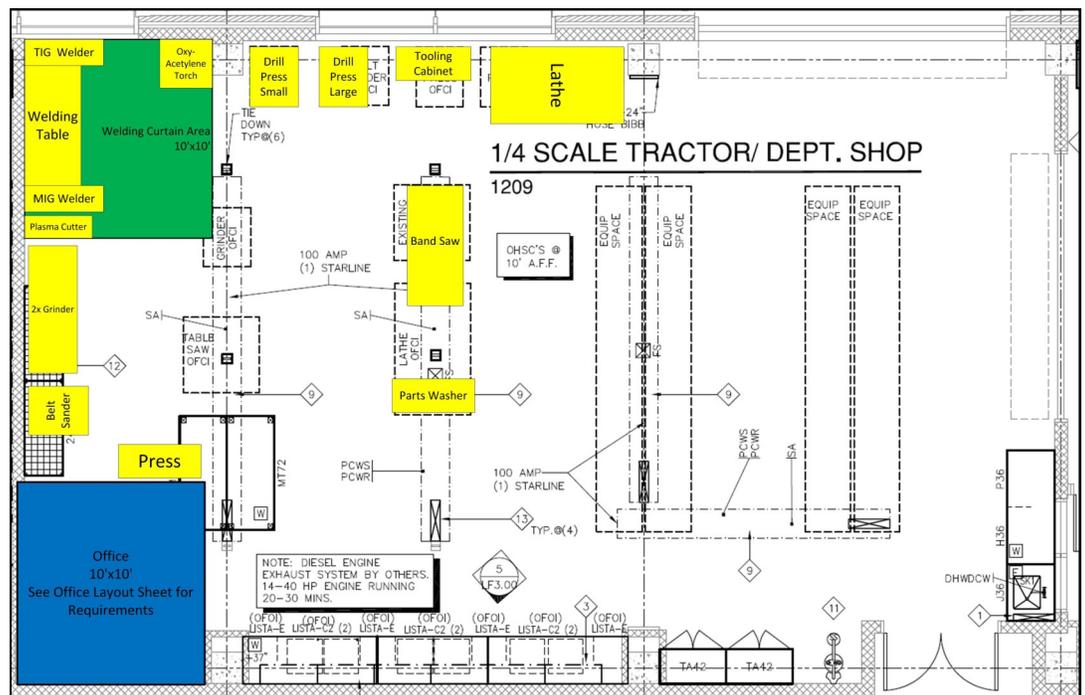
Last year it was announced to the club that the Iowa State University Department of Ag and Bio Systems Engineering would be graciously donating shop space in the new ABE building to the Cyclone Power Pullers. We were very excited to hear this news. Planning and preparation for the new shop are in full swing. The club has been working closely with members of the department to ensure a smooth transition from our old shop to the new one in the near future.

“The 1/4-scale tractor team will have new departmental shop space in the new laboratory building, Sukup Hall, as part of the Biorenewable Complex. The shop will be located on the first floor. This new shop will give the 1/4-scale team top-notch facilities for designing and building their 1/4-scale tractors for competing at the annual ASABE competition in Peoria, IL. The move in date is planned for June 1, 2014.” - Dr. Steven Mickelson, Head of the Department of Ag and Biosystems Engineering.

The Iowa State University Department of Ag and Biosystems Engineering has been a strong supporter of the Cyclone Power Pullers since the start of the club in 1997. Members of the department inspire the team to do their best, and to strive for innovation. For all of their years of support, the team would like to extend a very special thank you to any and all members and associates of the Department of Ag and Biosystems Engineering. Thank you for your continued support.



“The team is very excited about moving into our new shop.” - Dan Killpack



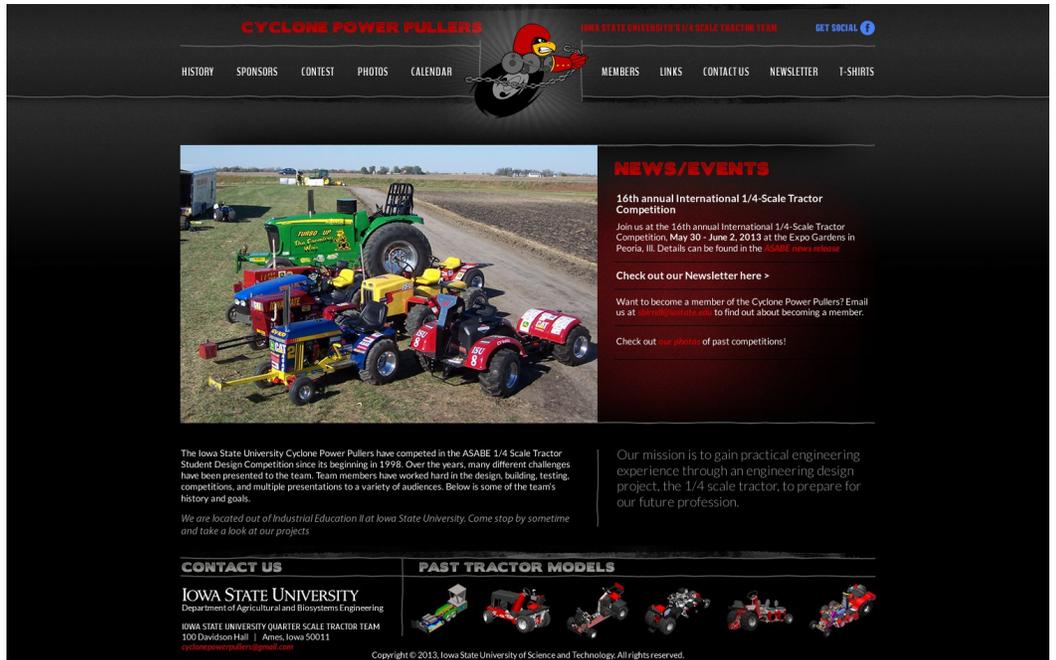
“It is nice to have sponsors who support the team members with a wide variety of projects.” - Brian McEvoy



Check us out of Facebook. Just search for Cyclone Power Pullers, and Click “Like” for updates & information

New Website

At the beginning of the spring semester the decision was made by the club to completely overhaul and update the club’s existing website. The goal of this project was to develop a website that was professional, eye-catching, and can be updated easily by any club member. Thanks to cooperation from Cylosoft Inc, this goal was achieved. We now have a brand new website that is fully updated. Please check our new site www.cyclonepowerpullers.org and let us know what you think!



Above: A screen shot of the new Cyclone Power Pullers Home Page.

New Officer Team

Title	Officer	Email
President/Webmaster.....	Dan Killpack	killpack@iastate.edu
Vice President.....	Conner Toennies	c10ves@iastate.edu
A Team Leader.....	Jason Herbers	jherbers@iastate.edu
Treasurer.....	Nick Price	nprice@iastate.edu
X-Team Leader.....	Clayton Hamilton	claytonh@iastate.edu

Please contact one of these members with any questions about design, sponsorship, or anything else you may be wondering. Or email cyclonepowerpullers@gmail.com
 Check out our website at www.cyclonepowerpullers.org

Thank You!

Sponsor Recognition

Current Full Pull Club Sponsors



QUALITY MANUFACTURING CORPORATION

Current Cyclone Club Sponsors



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JOHN FREDRICKSON
THE HAIGHT FAMILY



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CLINT RECKER
PETER HORNE SR.
MR. & MRS. STEVENSON



ISU DEPARTMENT OF AG. AND BIOSYSTEMS ENGINEERING

Support the Cyclone Power Pullers!

Our team is actively seeking new sponsors for the 2012—2013 school year. If it were not for those who support our team, we would not be able to continue participating in the annual ASABE 1/4 Scale Tractor Student Design Competition. Because of this, we recognize our supporters using the following criteria:

Full Pull Club Sponsor: Donations valued at greater than or equal to \$5000 will be recognized on the team display board in addition to those recognitions given to Cyclone Club Supporters.

Cyclone Club Sponsor: Donations valued at less than \$5000 but greater than \$1000 will be recognized on the team trailer in addition to those recognitions given to Gold Club Supporters.

Gold Club Sponsor: Donations valued at less than \$1000 but greater than or equal to \$500 will be recognized on the team t-shirt in addition to those recognitions given to Silver Club Supporters.

Silver Club Sponsor: Donations valued at less than \$500 but greater than or equal to \$100 will be recognized on the team website, in the team newsletters, and on the 2011 tractor.

Bronze Club Sponsor: Donations valued at less than \$100 will be recognized on our team website.

For more information:

cyclonepowerpullers@gmail.com or www.stuorg.iastate.edu/powerpullers

Team Mailing Address:

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