



# THE NUTS AND BOLTS

## TechHOUNDS Newsletter

## OUTSIDE EXPERIENCE

As the build season comes to an end the team members will have a new list of great memories and much more free time. TechHOUNDS gives students the opportunity to learn many valuable skills. Some students choose to use their experiences and their newfound skills to make projects on their own.

Senior Allison Cunningham is working on an Iron Man hand. “I am currently making an Iron Man hand in my Independent Study class. I found a pattern online for the armored hand he has in the movie. I’m making two cardboard ones as practice, and then I hope to be able to import the pattern into the plasma cutter, cut it out of metal, and weld one. Then I will put an LED ring in the middle so it looks like you got the blaster on it,” Cunningham said.

Sophomore Derek Fronck had the chance to make an LED box that lights up when music is played. “I liked how music is an analog signal that’s not compatible with a digital device, so I wanted to make something that can represent the waveform of music through a digital device,” Fronck said.

TechHOUNDS believes that each student has the potential to create anything, or succeed in everything they choose to. We want to thank any student that goes above and beyond the team to invent their future.

## CONTENTS:

<b>OUTSIDE EXPERIENCE</b>	<b>1</b>
<b>UPCOMING EVENTS</b>	<b>2</b>
<b>WHY GO TO COMPETITIONS</b>	<b>2</b>
<b>DIVISION UPDATES</b>	<b>3</b>
<b>GET TO KNOW OUR TEAM</b>	<b>4</b>
<b>SPONSORS</b>	<b>5</b>

# UPCOMING EVENTS AND DETAILS

## MARCH 4 & 5 Tippecanoe District Competition

Location:

William Henry Harrison High School. 5701 N 50 W, West Lafayette, IN 47906

Event Contact:

[info@indianafirst.org](mailto:info@indianafirst.org)

## MARCH 24 & 25 Perry Meridian District Competition

Location:

Perry Meridian High School. 400 W. Meridian School Road in Indianapolis, Indiana, 46217

Event Contact:

[info@indianafirst.org](mailto:info@indianafirst.org)

## APRIL 7 & 8 District Champions

Location:

Huntington North High School. Huntington, IN 46750

Event Contact:

[info@indianafirst.org](mailto:info@indianafirst.org)

## WHY SHOULD YOU GO TO THE COMPETITIONS?



“The competitions are extremely fun. You get the chance to make new friends outside of your division. The bonds you form while you are waiting in between matches and complaining about the bleachers are the friends you will have for life.”

-Laura Dobie

We have extra spirit wear that we will be selling at all the competitions.

# DIVISION UPDATES



**CONSTRUCTION** “The battery box is completely assembled, painted, and wired and we are adding L-Brackets to the sides to reinforce it. The electrical cart is completely assembled and painted, and we’re working on the peg board for the spools of wire. We have made a lot of progress on the slide for the airship, and we’re working on the sponsor banner.”



**ELECTRICAL** “We put together our mounting system, troubleshot the problems that came up when we put the board together, and we’re putting LEDs on things.”



**ROBOT OPS** “We finished our drive train and our gear collector is almost mounted. Our climber is assembled and ready to mount, the hopper is ready to mount, and our vertical feeder is getting there.”



**INFORMATION TECHNOLOGY** “We’re still working on the scouting system, and that’s our big project for this week.”



**PUBLIC RELATIONS** “This week PR has been working on the PR video, the week six newsletter, taking more photos and videos. It has been a really relaxing, but extremely productive last week. We have accomplished a lot this year and I’m extremely proud of my division.”



**PROGRAMMING** “In programming, it’s been crunch time on the robot code. We’ve just been fine tuning all the auton stuff and we’ve tried to work with some motion profiling. We’re implementing some more advanced stuff with vision tracking and we’re hopeful that we’ll have the robot by the end of the week.”

To view more of 2017’s photos visit our Flickr at <https://www.flickr.com/photos/98271547@N05/albums>

# GET TO KNOW OUR TEAM

## ROOKIE CORNER



### ABEL KISER

#### Why did you join?

I originally joined TechHOUNDS to get actual experience in the engineering areas and also because I wanted to learn how to weld.

#### What are your goals for the team?

Finish the robot in week six and have it not break. That's a good goal for right now.

#### What have you liked about the team so far?

I've met some people I haven't ever met before, which was good. I have a new group of friends that I wouldn't have known before.

#### How did you hear about TechHOUNDS?

Through teachers mostly; I've been in the engineering department a lot.

## MENTOR CORNER



### MR. BONEWIT

#### How long have you been a mentor?

Four years.

#### Why did you start mentoring?

I first got involved when I started teaching here, just by helping out when I could. After seeing how interesting it was and how interested the kids were, I started helping out more. Eventually I just figured that I wanted to be able to share my interests with the kids, and I want to be able to see them succeed. So, what better way of doing it than the robotics team.

#### What goals do you have for the team?

I hope to see us succeed in everything that we try to do. If it's at a competition, if it's making new friends, or if it's individual goals that we set for each other. Whatever we set out to do I hope to see us succeed.



### WANT TO KNOW MORE?

visit [techhounds.com](http://techhounds.com)

### WANT TO BECOME A SPONSOR?

email [techhoundssponsors@gmail.com](mailto:techhoundssponsors@gmail.com)

**SIGNATURE**  
**\$6000+**



**BOEING**



**Rolls-Royce®**

**Carmel High  
School**

**DIAMOND**  
**\$4000+**



**United  
Technologies**

**DELPHI**

**GOLD**  
**\$1000+**

Gyan Sys Inc.  
MOBI  
Bastian  
SMC USA

Porter Realty  
Jones Robb PLLC  
Lentz Independent Consulting  
Chairs of a Different Color

**SILVER**  
**\$500+**

Dirk Bowman  
Sheridan Road  
Flexware Innovation Inc.  
Duke Realty  
Pyramid Technology Solutions

Busy Bee Headbands  
Redali  
McAlisters Deli  
Cunningham Group  
Forward Thinking

**BRONZE**  
**UP TO \$500**

Stribling Media  
Brandon Tiek  
Cold Hard Art  
Delta Faucets  
McDonalds  
AndyMark  
Allegiant  
DIVsys  
Kiwanis  
HWC Engineering  
Edward Jones  
Holscher Products

arcDesign  
Cleo Legal  
L&J Realtee LLC  
Chairs of a Different Color  
Center for Diagnostic Imaging  
DWA Healthcare Communications Group  
Hoosier Gasket Corporation  
Integrated Investment Strategies, Inc.  
Center for Diagnostic Imaging  
Tony LaMear for US Congress, (IN 5th)  
Williams Comfort Air  
Fusion Technology Partners

**THANK YOU TO OUR SPONSORS**