



Boosting Engineering, Science, and Technology



Mission Statement

BEST is a non-profit, volunteer-based organization whose mission is to inspire students to pursue careers in engineering, science, technology, and math through participation in a sports-like, science-and engineering-based robotics competition.



Our Principles

- Students are the primary participants and benefactors. BEST is an extracurricular academic experience that engages students through teamwork, self-directed learning, apprenticeship, and problem solving.
- Students perform all of the work. Team mentors—engineers, technical professionals and scientists from industry—serve as guides to shepherd students through the engineering design process.
- Schools participate at no cost. There are no entry fees or kits to purchase associated with the BEST competition. Schools must fund their travel costs, team shirts, and other team enhancements.
- BEST is an equal opportunity program. Any public, private, or home school may participate in BEST.

The Gap

In the 20 years of BEST we have given students a path, a path to their future, a path strewn with gaps. Maybe they don't realize the importance of these gaps, but we do. For without this realization on our part, BEST will cease to be BEST.

In BEST, students encounter problems. Solving these problems is not our goal, how to approach these problems, is. We don't give the student everything to solve these problems. There is a gap, a gap we intentionally provide. Crossing that gap requires students to innovate, to create, and to discover the



importance of crossing gaps, both professionally and personally.

In whatever aspect of Engineering, Science, or Technology they choose as their career, there will be these gaps waiting for them. Crossing these gaps will be their challenge, their vocation, and their very reason for doing what they do. We have discovered we are individuals who expect these gaps and have a talent for crossing them. We have even discovered we are individuals who covet the crossing. We want to find students who also may share this talent, this passion and show them that there is a career for crossing gaps.

But it is this very talent, this very joy of being able to cross these gaps and arrive at a solution that makes it so very difficult for us to create a problem that contains gaps. Our nature is to provide the method and materials we know will take a student across gaps. But, against our very



nature, we do not. We know that if we provide everything there will be no problem, no gap to be crossed. A gap is caused by something missing and we make sure something is missing. We provide the gap. For like us, students reach this gap, and like us, they smile.

Steve Marum and Ted Mahler

Co-Founders

Executive Director Report



I assumed the role of Executive Director mid -year and have been on a great learning curve ever since. However, one thing that I did know from my experience in both a local and regional hub is the extraordinary number of volunteers we have and their dedication. When you have a moment, look at our demographics. We are active in 19 states with nearly 50 hubs and reach over 15,000 students through the actions of volunteers.

This is truly the power of the people and through their efforts we continued to provide an exciting view and experience

of the STEM disciplines at NO COST to the participating teams. In addition to everything else they do for participating students, our volunteers raise all of the operating funds that we require each year.

I have included in this report a picture of me and my grandson at Texas BEST. While too young to participate, he is excited every year to attend, cheer, and VOLUNTEER!

The Board of Directors is dedicated to supporting our hubs and volunteers to the maximum extent possible. My role is to support the Board and be the primary point of contact for people interested in BEST Robotics. This is a role I take very seriously and will do my BEST.



Tom Fitzmaurice *Executive Director,* BEST inc.



President's Letter

With the closing of the 2013 BEST Robotics season, we celebrate the accomplishments of the organization as well as reflect with amazement on the incredible work of the young people we serve. The implementation and



execution of the new BESTology program (executed by the Jubilee BEST A team) allowed coaches and mentors to access learning materials for use with our teams in their deeper learning about the game topic of Central Processing Units (CPUs) and their assembly process. The BEST national presence was also expanded through active use of social media increasing exposure through Facebook and Twitter.

As the BEST organization grows, we face challenges of growth and expansion while seeking sustainability. The annual support of our national sponsors makes this possible.

We are grateful for their financial support as well as the national exposure they provide the organization.

The 2013 season saw students perform complex problem solving at an amazing level. Our volunteers, hub directors, mentors and coaches worked tirelessly to make each event possible. Working together toward a common goal of learning success is the essential purpose of BEST Robotics and we are grateful for all of the individuals who contribute toward reaching that goal.

As my tenure as Board President ends and the new Board of Directors take the reins, I feel confident that they will continue to lead the organization toward a strong future. The purpose of the BEST organization remains the same – student-designed, student-built, students-driven robots at a cost that allows any school to participate.



Yours in BEST,

Eric Heiselt President, BEST Board of Directors



- BEST originated in 1993 when Ted Mahler and Steve Marum, two engineers with Texas Instruments in Sherman, Texas, started the program as a competition for rural schools in the area. The first competition hosted 14 schools and 221 students. In fall 2013, over 853 teams and 15,354 students participated.
- BEST Robotics, Inc. (BRI or BEST) incorporated as a 501(c)(3)3, non-profit organization in 1998.
- **BEST** is a volunteer-driven organization, with over 10,000 people serving as "hub" (local competition site) organizers, event personnel, team mentors, and competition judges.
- BEST licenses use of its program to groups that want to start and host the program in their communities. Any group– companies, school systems, two- or four-year colleges or universities, professional engineering societies, or individuals can start a hub. Funding for a hub must be raised by the local organizing group.

Competition Overview

- The program mirrors a full product development cycle from concept through head-to-head evaluation (i.e., competition). The program and its end product, the competition robot, are used as educational tools to introduce students to the complete engineering design process and the many aspects of true product development.
- Each team designs and builds a radio-controlled machine to accomplish defined tasks in a game-type format. In September, six weeks before the competition, the teams gather at local hub sites for Kick-Off Day where they receive identical kits of equipment (e.g., microcontroller, motors, batteries, etc.) and raw materials (e.g., plywood, PVC pipe and connectors, screws, bolts, nuts, glue, etc.) from which to build their machines. Teams also receive a detailed set of game rules and are shown a demonstration of the game on the playing field. The machines they build cannot exceed 24 pounds, must fit within a 24-inch cube at the starting position, and must be built only from the materials provided in the kit. At the end of the six week development cycle teams compete head-to-head on the playing field to determine which machine is the best.
- Besides the design of the machine, each team also participates in other activities related to a product development such as technical writing, sales and marketing, and public relations. Teams that score well in all activities have a chance to win the BEST Award, the most prestigious award given for a team that truly grasps the product development principles and the concept of Boosting Engineering Science and Technology. The BEST Award judges the team through their Project Engineering Notebook, Marketing Presentation, Educational Team Exhibit, Interviews with judges, Spirit and Sportsmanship and their Robot's Performance in the head-to-head competition.

Program Features

- **BEST** inspires students to pursue careers in engineering, science and technology. This is critical given the dearth of engineers that industry is experiencing now and will continue to experience in the future.
- BEST helps prepare students to be technically proficient in tomorrow's workforce.
- **BEST** teaches teamwork and leadership development as well as analytical, decisionmaking, and problem-solving skills.
- **BEST** students experience "design-to-market" product development experience that is transferable to all engineering and science disciplines and career pursuits
- **BEST** provides participating students recognition and acclaim typically reserved for their peers in sports.
- **BEST** enhances teacher effectiveness.

BEST is an outstanding educational program accessible to all students, schools, and communities.



The Story Behind the 2013 Game, "Gatekeeper"

Educational Theme: Building a Central Processing Unit (CPU)

The Story Line

As the world of electronics grows larger and larger, the internal components continue to grow smaller and smaller. Transistors, gates, registers, memory, decoders - all working together making electronics simple yet complex. Future economies will depend on building the BEST robots and cutting-edge technology. The BEST Robotics motto has always been "no robot left behind". One challenge remains: Squeaky, the original BEST robot, needs serious upgrades to become Squeaky 2.0.



Almost all of the components for Squeaky's upgrade have been secured through generous BEST sponsors, but one component is still missing: the BEST CPU (Central Processing Unit). Squeaky 2.0 will require the newest and fastest CPU on the market.

BEST Team Challenge

BEST Robotics will be interviewing corporations in 42 days to award the contract to upgrade Squeaky. BEST Robotics will base the award on efficiency of each company's production line (robot performance), engineering notebook, marketing strategy, exhibit booth, and sportsmanship. Apply logic and critical thinking skills to determine the number of transistors and types of gates needed to be successful. As the "Gatekeeper", we look forward to seeing you in 42 days to determine which corporation is the BEST of the BEST!

Team Objectives

Design a prototype robot to construct a CPU over the course of three fabrication stages.



Stage 1: Gate Fabrication Collect transistors (wooden dowel rods) and places them into designated receptacles within the Gate Fabrication area to be converted into the desired logic gates. Transistors may be converted into the following logic gates: AND, OR, NOT, and NAND.

Stage 2: Integrated Circuit (IC) Fabrication Collect logic gates (colored plastic coat hangers) and place them in the proper combinations within the IC Fabrication area to be converted into the desired integrated circuits, or "ICs". Logic gates may be converted into the following ICs: Multiplexers (MUX), Adders, Decoders, and Data Latches (D-Latch).

Stage 3: CPU Fabrication Place ICs (aluminum-coated insulating foam with a 1"x 2" wooden handle) within the CPU Fabrication area to be converted into the components necessary for a CPU. ICs may be converted into the following CPU components: Registers, Arithmetic Logic Units (ALUs), Instruction Decoders, Memory Units and Address Decoders.



2013 Demographics



As a result of participating in BEST, students...

- Understand real-world use of mathematical concepts and applied physics.
- Experience real-world science and engineering challenges; training that is transferable to all academic disciplines and career pursuits.
- Understand what engineers do engineering is "demystified".
- Experience "design-to-market" product development experience that is transferable to all career pursuits.
- Receive recognition and acclaim typically reserved for their peers in sports.





Competition Sites

2013 Hubs and Regional Championships

ALABAMA

Blazer BEST (2008) University of Alabama at Birmingham Birmingham, AL

Central Alabama BEST (2011) Central Alabama Community College Talladega, AL

Jubilee BEST (2004) Jubilee BEST Robotics, Inc. Mobile, AL

North Alabama BEST (2009) Wallace State Community College Hanceville, AL

Northeast Alabama BEST (new in 2012) Northeast Alabama Community College Rainsville, AL

Northwest Alabama BEST (2011) Northwest Shoals Community College Muscle Shoals, AL

Selma BEST (new in 2012) Wallace Community College Selma, AL

Shelton State BEST (new in 2012) Shelton State Community College Tuscaloosa, AL

Tennessee Valley BEST (2003) Calhoun Community College Decatur, AL

War Eagle BEST (2001) Auburn University Auburn, AL

Wiregrass BEST (2010) Wiregrass BEST, Inc. Dothan, AL

ARKANSAS

Little Rock BEST (2009) University of Arkansas at Little Rock Little Rock, AR

Northark BEST (2006) North Arkansas College Harrison, AR

River Valley BEST (2003) University of Arkansas - Fort Smith Fort Smith, AR

COLORADO

Rocky Mountain BEST (2010) Rocky Mountain BEST, Inc. Denver, CO

CONNECTICUT

Connecticut BEST (2006) Central Connecticut State University New Britain, CT

FLORIDA

Emerald Coast BEST (2007) University of West Florida Pensacola, FL

Florida West Coast BEST University of West Florida Tampa, FĹ

Frontier Trails BEST (2005)

University of Arkansas - Fort Smith

GEORGIA

Fort Smith, AR

Georgia BEST (2003) Southern Polytechnic State University Marietta, GA

KANSAS

Kansas BEST (1999) Wichita State University Wichita, KS

LOUISIANA

NOLA BEST (2011) Red Stick Robotics, Inc. New Orleans, LA

La Tech BEST Red Stick Robotics, Inc. & Lousiana Tech University Ruston, LA

MINNESOTA

Minnesota BEST (new in 2012) New London-Spicer Schools New London, MN

MISSISSIPPI

Mississippi BEST (2005) Mississippi State University Starkville, MS

MISSOURI

Show Me BEST (2011) State Fair Community College Sedalia, MO

NEW MEXICO

New Mexico BEST (2001) New Mexico State University at Las Cruces Las Cruces, NM

NORTH DAKOTA

Bison BEST (200 North Dakota State University Fargo, ND

Blue Hawk BEST (2011) **Dickinson University** Dickinson, ND

Wildcat BEST (new in 2012) North Dakota State College of Science Wahpeton, ND

OHIO

Falcon BEST Bowling Green State University Bowling Green, OH

OKLAHOMA

Heartland BEST (2002) Northwestern Oklahoma State University Alva, OK

PENNSYLVANIA

Wolverine BEST (2010) Grove City College Grove City, PA

SOUTH DAKOTA

Jackrabbit BEST (new in 2012) South Dakota State University Brookings, SD

REGIONAL CHAMPIONSHIPS

Northern Plains BEST (new in 2012) North Dakota State University

South's BEST (2003) Auburn University Auburn, AL

Texas BEST (1994) University of Texas at Dallas Dallas, TX

Fargo, ND

TENNESSEE

Music City BEST (2006) Lipscomb University Nashville, TN

TEXAS

Big Country BEST (2011) Texas State Technical College – West Texas Sweetwater, TX

Hubs

Regional Championships

Capitol BEST (2001) Capitol BEST, Inc. Austin, TX

Collin County (CoCo) BEST (1995) Collin County BEST, Inc. McKinney, TX

Cowtown BEST (2001) Lockheed-Martin Aeronautics Fort Worth, TX

Dallas BEST (1996) Texas Instruments Dallas, TX

U-STEM BEST (2009) University of Texas-Medical Branch Galveston, TX

Heart of Texas BEST (2010) Texas State Technical College - Waco Waco, TX

Lion's Pride BEST (2010) Texas A&M University - Commerce Commerce, TX

North Houston BEST (1999) Baker-Hughes, Inc. The Woodlands, TX

Rio Grande Valley BEST (2011) Texas State Technical College – Harlingen Harlingen, TX

San Antonio BEST (1994) San Antonio BEST, Inc. San Antonio, TX

Southeast Texas BEST (2011) Sam Houston State University Huntsville, TX

West Texas BEST (1995) **Texas Tech University** Lubbock, TX



2013 BEST National Partner



In 2011, MathWorks became BEST Robotics' first-and-only National Corporate Partner through its generous funding support for the BEST Robotics organization. The company is the leading developer of mathematical computing software for engineers and scientists in the world. MathWorks equips BEST teams with software, training, and mentoring to tackle the same technical issues as professional engineers. Industry-standard MATLAB[®] and Simulink[®] provide a flexible design environment where BEST students can apply classroom theory to solve problems encountered in designing their robots.

machine, all from within the SolidWorks environment.

2013 BEST National Sponsors

writing their own code.











Since 2005, SolidWorks[®] has been providing their CAD Design software free to all BEST students. Their BEST and VEX CAD models, curriculum, tutorials, and design tools have

been invaluable in helping students understand the basics of robot design.

Now owned by AutoDesk, HSMWorks is the leading Computer Aided Manufacturing (CAM) software for SolidWorks and AutoCAD. HSMWorks provides seamless integration of 2D and 3D

toolpath programming directly into SolidWorks. BEST students can now take their CAD models

developed in SolidWorks and within minutes be cutting parts out on their school's router or CNC

Robotmatter incorporated provides its ROBOTC programming software for VEX Cortex and Robot Virtual Worlds free to all BEST teams during the competition season. ROBOTC is the premiere C-based robotics programming language for educational robotics and competitions. It is ideal for those students who want to go beyond simple drag-and-drop programming to



In 2005, igus[®], Inc. became BEST's first National Corporate Sponsor by donating its innovative polymer automated machinery parts to every BEST team for use in the design of their robots. The incorporation of these parts revolutionized the robotics competition by enabling students to design more innovative and efficient machines.



Intelitek, developers, producers and suppliers of industrial Blended Learning Technology Training Systems, provides its EasyC programming software for the VEX Cortex microcontroller free to all BEST teams and teachers. Designed with BEST students in mind, easyC's simple to use drag-and-drop programming interface does all of the syntax and spacing, allowing students to focus on program flow and robot design.



Wolfram Research annually provides BEST students with its renowned computational product, Mathematica. Whether it is research, computations, or technical documentation tasks, Mathematica helps students be their most productive.

BEST Founding Sponsor





2013 Regional Championship Sponsors







Frontier Trails

Fort Smith Convention and Visitors Bureau OGE Energy Corp. Foundation, Inc. Peterson Chemicals, Inc. University of Arkansas - Fort Smith Baldor Electric Company Weldon, Williams & Lick, Inc. Gerdau Shamrock Bolt & Screw Company J&B Supply Company Eureka Pizza ABF U-Pack Business Development Lumber One

Northern Plains

North Dakota State University – College of Engineering KL&J North Dakota Department of Career and Technical Education John Deere Electronic Solutions Microsoft NDSU Development Foundation 702 Communications Moore Engineering Ulteig FM Convention & Visitors Bureau Games Galore

South's BEST

VisualEdge International Society of Automation Army ROTC Briggs & Stratton VWR Charitable Foundation Carmichael Engineering Auburn-Opelika Tourism Bureau Hyundai Motor Manufacturing Alabama Donaldson Company Neptune Technologies Group Wells Fargo Brasfield & Gorrie Construction Southern Company Auburn University Outreach



Texas BEST

Texas Instruments Lockheed Martin Raytheon Rockwell Collins Science and Engineering Education Center Erik Jonsson School of Engineering & Computer Science



2013 Hub Sponsors

Big Country BEST

Ludium Measurements, Inc

Bison Best

North Dakota State University – College of Engineering & Arc KL&J North Dakota Department of Career and Technical Education John Deere Electronic Solutions UTC Aerospace Systems North Dakota State College of Science Bobcat Ulteig Basin Electric Power Cooperative

Blazer BEST University of Alabama at Birmingham Valmont-Newmark

Blue Hawk BEST DSU STEM Inititative Sears Floor to Ceiling

Capitol BEST

Freescale Semiconductor Skillpoint Alliance Texas State University Houghton-Mifflan Publishers Ken Burch

Central Alabama BEST

Central Alabama Community College Honda Manufacturing of Alabama Alabama Governor's Office of Workforce Development Alabama Power Company Talladega Rotary Club McCartney Construction Company Talladega Superspeedway International Motorsports Hall of Fame Representative Steve Hurst The Daily Home

Collin County (CoCo) BEST Raytheon

Garry and Janne Ackerman Xerox Printing Services Allen ISD, Allen, Texas

Cowtown BEST

Lockheed Martin Aeronautics Company

Dallas BEST

Texas Instruments - Analog Engineering Operations Texas Instruments - DLP Products Raytheon

Emerald Coast BEST

Gulf Power

Falcon BEST

Honda North America Lathrop Construction Argo Hytos

Georgia BEST Siemens Marietta NDT

Heart of Texas BEST

Texas State Technical College Community Bank & Trust First National Bank of Central Texas

Heartland BEST

Charles Morton Share Trust Foundation Northwestern Oklahoma State University Igus, Inc. Innovations First International SolidWorks MathWorks

Jackrabbit BEST

SDSU Jerome J. Lohr College of Engineering Daktronics 3M First Premier Bank Vision Brookings First Bank & Trust Xcel Energy Avera Sparton 3M Premiere Level Sponsors

- **Diamond Level Sponsors**
- Platinum Level Sponsors
- Gold Level Sponsors
- Silver Level Sponsors

Lowe's TV Productions Premier Source NorthWestern Energy

Jubilee BEST

J.L. Bedsole Foundation Alabama Power **Aztec Maritime Services** University of South Alabama - School of Computing Conde Systems Evonik Hargrove Engineers + Constructors Chevron University of South Alabama - College of Engineering Airbus Technip Faulkner State Community College BASE **Ingalls Shipbuilding** ExxonMobil TSCI Lowes **BakerBvtes Callis Communications**

Kansas BEST

Cessna Aircraft Company

Bombardier Learjet Spirit AeroSystems Great Plains Ventures, Inc. Airbus Americas Engineering, Inc. SPEEA Randal & Elizabeth Atkeisson

La Tech BEST

Red Stick Robotics

Lion's Pride BEST

Anonymous Harrison Walker & Harper 1887 FlowServe TAMUC College of Science, Engineering, & Agriculture L3 Mission Integration

Hubs that are not listed did not provide any sponsor information



2013 Hub Sponsors (continued)

Little Rock BEST

Caterpillar Entergy

Minnesota BEST

Kandiyohi County & Willmar Economic Development Commission Prinsco Jennie-O Turkey Store Willmar Lakes Area CVB Lakeland Broadcasting Q102 City of Willmar

Mississippi BEST

Toyota Caterpillar Bagley College of Engineering EpsCor Kimberly-Clark Missile Defense Agency- STEM Outreach Mississippi Manufacturing Association Nissan

Music City BEST

Nissan North America

New Mexico BEST

Calculex The Boeing Company Jacobs Technology New Mexico Space Grant Consortium TRAX International El Paso Electric

NOLA BEST

Red Stick Robotics

North Houston BEST

Baker Hughes American Society of Mechanical Engineers GJ Snyder III ExxonMobil

Northeast Alabama BEST

Governors Office of Workforce Development Missile Defense Agency STEM Outreach Tennessee Valley Authority DeKalb County Development Commission DeKalb County Homebuilders Assn. WalMart Foundation

Northwest Alabama BEST

TVA Walmart, Neighborhood Market, Florence, AL Allstate Insurance - Teresa Rogers Wise Alloys Alabama Technology Network (ATN) Flexco

River Valley BEST

Fort Smith Convention and Visitors Bureau OGE Energy Corp. Foundation, Inc. Peterson Chemicals, Inc. University of Arkansas - Fort Smith Baldor Electric Company Weldon, Williams & Lick, Inc. Gerdau Shamrock Bolt & Screw Company J&B Supply Company Eureka Pizza ABF U-Pack Business Development Lumber One

Rocky Mountain BEST

Jeppesen, A Boeing Company Raytheon Metropolitan State University of Denver Club Workshop, LLC Dick and Judy Tumlinson The Quick Foundation Scitor Corporation The Lowry Conference Center The Noerr Programs Corporation

San Antonio BEST

Tesoro Corporation Southwest Research Institute NuStar Foundation Society of American Military Engineers, San Antonio Branch Zachry Corporation Security Service Federal Credit Union Frost Bank Cutshall Consulting LLC

Selma BEST

Wallace Community College Selma Honda Lock MJ93 Foundation Alabama Power

Shelton State BEST

Mercedes-Benz U.S. International, Inc RocTenn

Show Me BEST

ProEnergy Services Johnson Controls

Southeast Texas BEST

Sam Houston State University Knowledge Based System Inc Capsher Technology HW Hydraulic Works

Tennessee Valley BEST

Toyota Alabama Workforce Development TVA Rotary Club of Decatur Daybreak

War Eagle BEST

VisualEdge International Society of Automation Army ROTC **Briggs & Stratton** VWR Charitable Foundation **Carmichael Engineering** Auburn-Opelika Tourism Bureau Hyundai Motor Manufacturing Alabama **Donaldson Company** Neptune Technologies Group Southern Nuclear Southern Company Wells Fargo Brasfield & Gorrie Construction Southern Company Service Auburn University Outreach

West Texas BEST

Texas Tech Whitacre College of Engineering IEEE South Plains Chapter IEEE Region 5

Wiregrass BEST

Michelin North America Inc Globe Motors Inc

Wolverine BEST

ANSYS, Inc. The Grable Foundation Bechtel Plant Machinery Inc.



2013 Financials

Statement of Activities December 31			
	Dec. 31, 2013	Dec. 31, 2012	Dec. 31, 2011
Assets			
Cash and Equivalent			
Total Checking/Savings	\$345,359.41	\$272,479.77	\$182,594.47
Total Accounts Recievable	-\$81.85	-\$81.85	-\$57.69
Total Other Current Assets	\$0.00	\$0.00	\$10,184.01
Cash and Equivalent	\$345,277.56	\$272,397.92	\$192,720.79
Total Assets	\$345,277.56	\$272,397.92	\$192,720.79
Liabilities and Equity			
Total Current Liabilities	\$0.00	\$0.00	-\$7,364.81
Total Liabilities	\$0.00	\$0.00	-\$7,364.81
Total Equity	\$345,277.56	\$272,397.92	\$200,085.60
Total Liabilities & Equity	\$345,277.56	\$272,397.92	\$192,720.79



2013 BEST ROBOTICS ANNUAL REPORT

2013 BEST Robotics Inc. Leadership

Executive Director

Tom Fitzmaurice

Director of Operations

Greg Young

Assistant to the Board

Rhonda Sherrell

Board of Directors

President	Eric Heiselt
Vice President	Ken Berry
Secretary	Todd Atkins
Treasurer	Patricia Sullivan

Hub District Representatives

District 1 Representative

Gail Fulenwider, Crowley's Ridge (Jonesboro, AR); Heartland (Alva, OK); Kansas (Wichita); Little Rock (AR); Northark (Harrison, AR); River Valley (Fort Smith, AR); Rocky Mountain (Denver, CO); Show Me (Sedalia, MO)

District 2 Representative

GJ Snyder, (Hub Director, North Houston), Capitol (Austin); Galveston; Heart of Texas (Waco); North Houston (The Woodlands); Rio Grande Valley (Harlingen); San Antonio(San Antonio); Southeast Texas (Huntsville); Space City (Houston)

District 3 Representative

Sue Mitchell, Blazer (Birmingham, AL); Central Alabama (Talladega, AL); Georgia (Marietta, GA); Music City (Nashville, TN); North Alabama (Hanceville, AL); Northeast Alabama (Rainsville, AL); Northwest Alabama (Muscle Shoals, AL); Tennessee Valley (Decatur, AL); War Eagle (Auburn, AL)

District 4 Representative

Patricia Sullivan, (Hub Director, New Mexico) Big Country (Sweetwater); Collin County (McKinney); Cowtown (Ft. Worth); Dallas (Dallas); Denton County (Denton); Lions Pride (Commerce); New Mexico (Las Cruces); West Texas (Lubbock)

District 5 Representative

Eric Heiselt, (Hub Director, Mississippi), Emerald Coast (Pensacola, FL); Florida West Coast (Tampa, FL); Jubilee (Mobile, AL); Mississippi (Starkville); NOLA (New Orleans, LA); Selma (Selma, AL); Shelton State (Tuscaloosa, AL); Wiregrass (Dothan, AL)

District 6 Representative

Alan Kallmeyer, (North Dakota), Bison (Fargo, ND); Blue Hawk (Dickinson, ND); Connecticut (New Britain, CT); Falcon (Bowling Green, OH); Jack Rabbit (Brookings, SD); Minnesota (New London, MN); Wildcat (Wahpeton, ND); Wolverine (Grove City, PA)

Regionals Representative

Ken Berry (Co-Director, Texas)

At Large Members

Dan Ward (Indiana Robotics Educators)

Miguel Garcia-Rubio (University of North Texas)

Daniel Curtis (Massachusetts Institute of Technology)

Todd Atkins (Mathworks Inc.)

Board Committees and Chairs

Awards & Judging	Jason Devillier
Board Development	Miguel Garcia-Rubio
Communications	GJ Snyder
Game	Greg Young
Hub Development	Open
Kit	David Kwast
National Championship Study	Open
National Conference	Eric Heiselt
Public Awareness	Todd Atkins
Software	Greg Young
Fund Development	Ken Berry
Policies and Procedures	Daniel Curtis
Strategic Planning Committee	Todd Atkins

Jack - Blazer BEST - 6th grade

I think that BEST has helped me understand that technology is everywhere and almost every career uses it.

Rachel – San Antonio BEST – 11th grade

It has shown me how to participate in a team in order to achieve a goal. I have learned so much about working with others and identifying with leadership roles. It has expanded my perspective of the possibilities of technology.

Ross – Blazer BEST – 12th grade

It has helped me realize that the engineering process is more than just building things. I have learned that public speaking, marketing, and documentation are also crucial aspects of engineering. The process of designing the robot also improved my skills of leadership among peers, as well as skills in patience, troubleshooting, and overall engineering. The program as affirmed my desire to pursue a career in the engineering field.

Jenna – Capitol BEST – 7th grade

l enjoy robotics because l've learned so much from it that I wouldn't learn in middle school. It expands my horizons about cutting-edge technology and what they are made of. Most important, l've learned about teamwork and even though we are a small middle school, if we do our best, we can go far!

Xian – Northwest Alabama BEST – 12th grade

I already knew that I wanted to be an engineer or computer scientist, but BEST gave me the experience I needed to know that I wanted to enter this field for sure. This opportunity was fun and engaging, and I loved being part of a team that also loved it.

Trey – Mississippi BEST – 12th grade

Participating in BEST Robotics has been one of the best decisions I've made in high school. It has helped me discover my career path, practice leadership, and learn to work well with others.

Haddie - Mississippi BEST – 9th grade

Participating in BEST and our school robotics club taught me many things. The long nights of seemingly impossible tasks taught me perseverance, the marketing presentation taught me public speaking skills, the pit crew and teamwork required taught me how to work with others, and most importantly, through my own experiences and through the examples set by our club leaders, I learned what leadership was. Robotics was such a valuable experience and I bonded with my fellow club members in ways not possible in any other club. It also made me realize I really enjoy engineering and I am now considering it to be one of my possible career choices.

Noah – Rocky Mountain BEST – 11th grade

BEST has revealed to me that I truly desire to pursue a career path in the field of sciences. I greatly enjoyed overcoming the challenges faced in designing and build the arm for our robot, as well as, troubleshooting the code.

Blaise – Cowtown BEST – 12th grade

BEST has helped me look towards Engineering as a possible career path because I enjoyed watching the robot and team progress as the season went on, and I felt satisfaction from watching all the separate elements come together to make a working robot.

Caitlyn – New Mexico BEST – 9th grade

BEST has helped me grow in areas such as public speaking, communication, and working with others. I've had so many opportunities that I never would have done like meeting community leaders and writing press releases. BEST has been a great learning experience!

Malcolm – Georgia BEST – 12th grade

BEST has shown the possibilities of robotic technology to creating solutions to problems in the world. It has also heightened my interest in mechanics and understanding how they work and how to apply them to robotics and solving problems. I plan on taking this along with the management and business skills I've learned in BEST to college and in my future career.

Parker - Minnesota BEST - 10th grade

BEST has opened up a whole realm of possibilities to me. Via BEST and team mentors, I have learned of the many career opportunities for engineering and robotics. Thanks in part to BEST, I now plan to get a degree in engineering. Being part of a BEST team has taught me so much, not only robotics related (brainstorming, construction, programming, etc) but also other life skills (writing, team work, leadership, speaking, etc). I am very grateful to BEST for this amazing opportunity I have been given.

Sounds like a bored student...

BEST has mostly served as an outlet to break away from the monotony of school life additionally, it has given me something to dedicate time to, rather than just mindlessly study and repeat what teachers ask of me for tests.

Ruth Bealle - Rosa A. Lott Middle School Teacher

Our participation in BEST Robotics this year has impacted the Lott Middle School Robotics Team in a tremendous way. Each team member has advanced in ability to use the engineering design process and in ability to construct their design. Collaboration and cooperation is at an all-time high and members are much more interested in listening to the ideas of others. Being involved in BEST has dramatically enhanced problem solving and decision-making skills, along with technical writing ability. From the beginning to the end of this year, the difference in our team is amazing. We all look forward to next year's fun and challenge.

Angie Dixon – St. Luke's Episcopal School Teacher

Every year we see students involved in best that are learning new skills. We had the good fortune to have college students from the University of South Alabama get involved as mentors this year. They worked very closely with a 6th grader who was new to the program this year. That 6th grade student benefitted from these mentors as they taught him to program the robot. While, as a 6th grade student, this young man still has a lot to learn, the benefit he received from the mentoring of two college students was significant. We also saw the high school members of our team come together to focus on strategy this year. One student took on strategy development, but as he presented it to the others, they began to see flaws in the proposed strategy. To see a junior accept the criticism of his peers and work with them to redevelop the game strategy for the betterment of the team was a leap forward in teamwork and maturity for many of our members. Additionally, when they had difficulty on the field, our team members went to another team for help and advice. Not only did this get our members back into the game, it also showed growth and maturity on their part.

