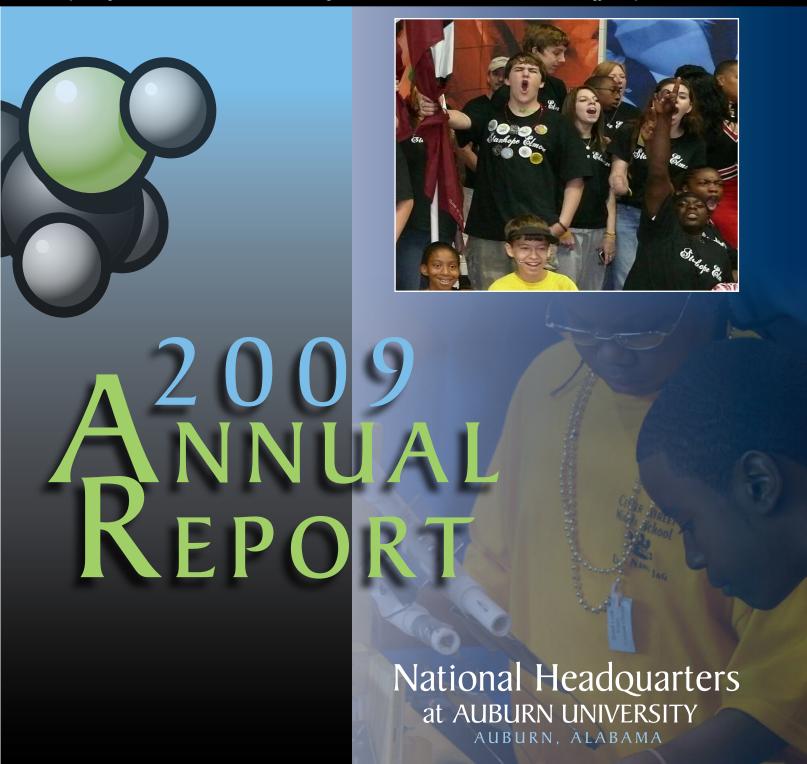


# www.bestinc.org

Inspiring Future Generations of Engineers, Scientists, and Technology Experts Since 1993





# 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 kit costs associated with the BEST competition. Schools must fund their travel costs, team tee shirts, and other team enhancements.
- BEST is an equal opportunity program. Any public, private, or home school may participate in BEST

# President's Letter

Wow, what another great year for BEST! In 2009, BEST touched more than 11,500 students from 14 states. Since its start in 1993, BEST has impacted the lives of 91,000-plus students!

Growing BEST has required an enormous amount of time, energy, and passion from countless volunteers. This phenomenal program continues to evolve, both technologically and organizationally.

On the technology side, our game this year, "High Octane," pushed our students to even greater heights with the introduction of an IR transmitter and real-time field interaction. Future games will definitely exploit these capabilities, especially in the realm of programming. And with the addition of sensors, the fun is just beginning as we expand the versatility of the BEST returnable kit.



On the organization side, the hire of Dr. George Blanks, Director of K-12 Engineering Outreach in the Ginn College of Engineering at Auburn University (national headquarters of BEST), as our part-time Executive Director (ED) along with Ms. Rachel Dossman, an independent contractor serving in an administrative and research role, has proven to be an excellent move. The need for consistent and purposeful strategic planning, growth, STEM education partnerships/alliances, and national fund raising are major issues that face our grassroots organization. These are the tasks that many of us simply don't do. We strongly believe George and Rachel, along with the help of our Board of Directors and BEST family, will help ensure we're strategically focused on those things that are most important to our students' futures.

In addition, Auburn University hosted our first National Conference last June. Many BEST teachers, mentors, and program volunteers took advantage of the workshops, sessions, and forums to network with the BEST family, share their stories, present their ideas, and learn more about how to be a successful organization. The conference also provided teachers with training in the BEST technology and BEST Award categories. Our hope is to continue the National Conference every other year and move it around to different host sites.

I truly believe the greatest strengths of our BEST family are its dedicated volunteers and sponsors. We know that they stay involved because of our unwavering commitment to the students. As we continue to grow and position ourselves for the future, we cannot forget the basic principles our organization was built upon – student-designed, student-built, student-driven robots at a cost that allows any school to participate. And please remember that BEST exists to inspire those students to be tomorrow's technicians, engineers, scientists, scholars, and inventors.

So join me in 2010 as together we promote the BEST game in town!

John Martini

President, BEST Board of Directors



# **Executive Director's Letter**

These are exciting times for BEST as our program enters its 18<sup>th</sup> year of providing middle and high school students with an exciting and fun program that provides them with opportunities to help develop their potential.

In my tenure as BEST's Executive Director, I have seen our "stock" rising on a greater national scale. Science, Technology, Engineering, and Mathematics (STEM) education has moved to the forefront as the single, most critical area of education that the U.S. must develop in order for our country to remain competitive in an increasingly global economy. Many state and federal government initiatives are being



launched to attract students to careers in these fields. BEST is being recognized as an ideal program for helping this cause.

I am entering my tenth year of being a part of BEST, both as a hub director and as a member of its core group of leaders and organizers. I have seen it grow from 18 hubs in 2001 to 39 this coming fall. We have impacted the lives of thousands of students during this time and that number continues to grow each year. And to think that we have accomplished this through the devotion of thousands of volunteers. They share a passion for the program and devote hundreds of hours outside of their jobs in helping to provide this program for schools and students in their communities.

Special recognition is due the hub directors who not only organize and run their competitions, but also raise their own funding. There literally would be no BEST were it not for these remarkable individuals.

The information and data contained in this report may not appear to be either exceptional or extraordinary. However, if the reader would consider what we have accomplished without a full-time staff, with very limited funding, and through the tireless efforts of over 4,000 volunteers, it should be apparent that BEST is a phenomenal organization.

I am privileged to represent BEST Robotics in our efforts to expand the program across the U.S. and increase its impact on students, K-12 STEM education, and workforce development.

BES1<sub>TM</sub>

George Blanks, Ed.D.

Executive Director, BEST Robotics, Inc. National Headquarters, Auburn University

Lugwishing

# Why do we do our BEST?

Why do we do this? Why do teachers, team mentors, and over 4000 BEST volunteers devote countless hours of their personal time to this program? What is it about BEST that is worth all this effort?

One answer can be seen in a small piece of the event that often goes unnoticed. In this tiny slice of time, a student's actions become a microcosm of the entire reason for BEST. It happens only in the frantic few minutes before a round of competition starts. Those final few seconds when all eyes are on them,



the crowd noise is deafening, and the time pressure is mounting. It happens when that student makes the sudden realization that their robot is not working.

What happens then reflects everything that student has learned in BEST. In that pressure cooker environment, young students walk through a cognitive detective process worthy of any NASA mission controller. Without their adult mentors to help, under time pressure and under emotional strain, they encounter a remarkable 60-second life lesson.

Most push through. They do it because in the preceding six weeks of design, test, and redesign, they have learned a skill. BEST has taught them how to break the problem barrier—the realization that a problem is not an endpoint, but only an answer not yet found. Life is a set of problems to be encountered. Once the problem barrier is broken, problems are replaced with process.

BEST changes mindsets. BEST places students in a situation that conditions their minds. It is a situation that flows from concept, to physical structure, and finally to operational use. Using robot design and competition, BEST presents an opportunity for students to break the problem barrier.



**Steve Marum and Ted Mahler** *Co-Founders* 

BEST appears first as an almost insurmountable problem and ends with the accomplishment of a solution; in the middle, a process. That process is the key. Somewhere in that process, the perception of a problem is changed, and with it young minds are changed, as well

Our workforce, our country, and our world need these changed young minds that understand problems are not endpoints, but undiscovered answers waiting for the correct process.

That's why we do this. That's why we continue to do our BEST.





# **Program Overview**

- BEST originated in 1993 when Ted Mahler and Steve Marum, two engineers with Texas Instruments in Sherman, TX, started the program as a competition for rural schools in the area. The first competition was held with 14 schools and 221 students. In fall 2008, over 650 schools and 10,000 students participated.
- BEST has been a 501(c)3, non-profit organization since 1998 and is headquartered in the Ginn College of Engineering at Auburn University (AL).
- BEST is a volunteer-driven organization, with over 4,000 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 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 competition itself is comprised of two divisions, **Robotics** and the BEST Award. All teams compete in the Robotics division. The **BEST Award** competition is optional for participating schools.
- Robotics Each team designs and builds a radio-controlled machine to accomplish defined tasks in a game-type format. Six weeks before the competition, the teams gather for Kick Off Day in early September at local hub sites where they receive identical kits of equipment (motors, r/c unit, batteries, etc.) and raw materials from which to build their machines, and a detailed set of game rules. The machines they build cannot weigh more than 24 pounds, must fit within a 24-inch cube, and must be built only from the raw materials supplied to them by the local hub.
- BEST Award teams are judged on the following: Project Engineering Notebook; Oral Presentation; Educational Display; Judges Interview; Spirit and Sportsmanship; and Robot Performance. Winning the BEST Award is considered the highest achievement any team in the competition can accomplish.

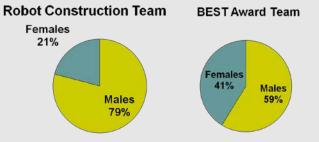


# 2009 Demographics

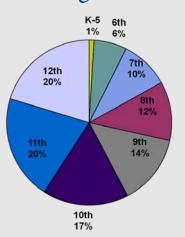
# Size of BEST

601 schools and 11,500-plus students participated (19 students avg. per team)

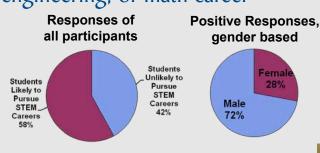
# Gender, based on participation



# Student grade level



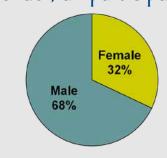
# Likely to pursue science, technology, engineering, or math career



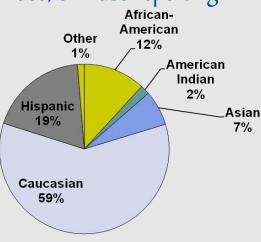
# Mentors

2234 volunteers served as team mentors (4 mentors avg. per team)

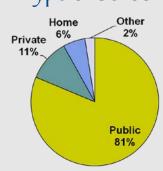
# Gender, all participants



# Race, 32 hubs reporting



# Type of School

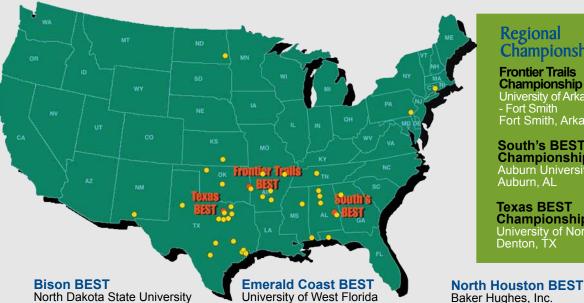






# 2009 Competition Sites ("Hubs")

BEST licenses use of its program to organizations, corporations, groups of individuals, and both two-year and four-year institutions that wish to start and sustain a "hub" (local competition site). In 2009 BEST had 35 hubs operating in 13 states.



North Dakota State University Fargo, North Dakota

# **Blazer BEST** University of Alabama

Birmingham Birmingham, AL

### **Brazos BEST** College Station, Texas

**Bulldog BEST** Mississippi State University Starkville, Mississippi

### **Capitol BEST** Austin, Texas

### **Coastal Bend BEST** Texas A&M University - Kingsville

Kingsville, Texas

# **Collin County BEST** McKinney, Texas

# **Connecticut BEST**

Central Connecticut State University New Britain, Connecticut

## **Cowtown BEST** Lockheed Martin Aeronautics

Fort Worth, Texas

# **Crowley's Ridge BEST** Arkansas State University Jonesboro, Arkansas

### **Dallas BEST** Dallas, Texas

Denton, Texas

**Denton County BEST** University of North Texas

# University of West Florida Pensacola, Florida

# **Galveston BEST**

University of Texas Medical Branch Galveston Galveston, Texas

# **Georgia BEST**

Southern Polytechnic State University Marietta, Georgia

# **Heartland BEST**

Northwestern Oklahoma State University Alva, Oklahomá

# **Hot Springs BEST** Arkansas School for Mathe-

matics, Sciences and the Arts Hot Springs, Arkansas

# **Jubilee BEST**

Mobile, Alabama

# **Kansas BEST**

Wichita State University Wichita, Kansas

### Little Rock BEST

University of Arkansas Little Rock Little Rock, Arkansas

# Music City BEST Lipscomb University

Nashville. Tennessée

# **New Mexico BEST**

New Mexico State University at Las Cruces Las Cruces, New Mexico

### **North Alabama BEST**

Wallace State Community College Hanceville, Alabama

# **National Sponsors**



igus, Inc. manufactures industry-leading plastic components for use on automated machinery. The company became our first national sponsor in 2006, donating various plastic machinery components to each BEST team each season. The company's generous donation of products enables the BEST experience to be more complex and challenging for the students. www.igus.com/yesprogram



SolidWorks is one of the leading CAD software companies in the world and has been generously providing free software to every BEST team during the annual competition since 2006. As a result of our teams now having extensive experience with SolidWorks, BEST has introduced a CAD Design Award and incorporated CAD design into its Project Engineering Notebook competition component. www.solidworks.com



Alibre Inc., founded in 1997 and based in Richardson, Texas, became a national sponsor in 2008. Alibre provides BEST students with free "lifetime" CAD design software that can be downloaded to their home, laptop, and classroom computers.

www.alibre.com



Regional

Frontier Trails Championship

South's BEST Championship

Auburn University Auburn, AL

**Texas BEST** 

North Houston, Texas

**North Texas BEST** 

Sherman, Texas

**Northark BEST** North Arkansas College

**Oklahoma BEST** 

Oklahoma Christian University

School District of Philadelphia

Philadelphia, Pennsylvania

Oklahoma City, Oklahoma

Philadelphia BEST

River Valley BEST University of Arkansas

Fort Smith, Arkansas

San Antonio BEST

San Antonio, Texas

**Space City BEST** 

Decatur, Alabama

War Eagle BEST

**West Texas BEST** 

Texas Tech University

Auburn University

Auburn, Alabamá

Lubbock, Texas

Metro Houston, Texas

**Tennessee Valley BEST** 

Calhoun Community College

- Fort Smith

Harrison, AR

**Championships** 

University of Arkansas - Fort Smith

Fort Smith, Arkansas

Championship University of North Texas Denton, TX

# 2009 Hub and Regional Sponsors

- Each BEST hub and regional must raise its own funds to run its competition through sponsorships.
- Sponsorship funds are used to purchase equipment and materials BEST teams use to construct and power their robots.
- Donations, whether in the form of cash or in-kind support, are tax-deductible.
- Sponsor recognition at BEST competitions varies based upon the amount of the gift.

| HUB | SPONSORS |
|-----|----------|
|     |          |

Bison BEST North Dakota State University - College of Engineering

& Architecture

North Dakota Department of Career and Technical Education

Case New Holland

Gabriel Metal Casting

Greater Fargo-Moorhead Economic Development Corporation

BTD Manufacturing

Rohcat

FRS Industries

Fargo Automation Phoenix International

North Dakota State University Development Foundation

Massman Automation Designs

Central Boiler

Northern Pipe Products Vareberg Engineering

State Bank and Trust

Sure Sign Goodrich

**Brokerage Printing** 

West Acres Shopping Center

Blazer BEST **UAB School of Engineering** 

Valmont-Newmark

Birmingham Chapter American Society of Mechanical Engineers

(ASME)

Birmingham Chapter IEEE

Birmingham Chapter Instrumentation Society of America (ISA)

John Gunter

Penny Manuel

Capsher Technology Brazos BEST

Knowledge Based Systems, Inc. (KBSI)

Dynacon Inc. Hydraulic Works Inc.

Lynntech Inc. Brazos Industries Inc.

LGL Animal Care Products City Bank Texas

Machine Works Inc

Agnitek

Bulldog BEST Mississippi State University, Bagley College of Engineering

Capitol BEST

Intel Corporation

**Dell Computer** 

Central Texas Technology & Engineering Executive Council

Global Knowledge, Inc. Westlake High School Anderson High School

Roger Beasley Volvo Tony Cacciola & Family

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ANVANA Web Hosting

Collin County Raytheon

BEST The Ackerman Family

Connecticut

Central Connecticut State University

United Technologies Corp.

Lowe's of Newington

Cowtown BEST No Sponsors Reported

Crowley's Ridge No Sponsors Reported

BEST

Texas Instruments High Performance Analog Texas Instruments Mixed Signal Automotive Texas Instruments Digital Light Processor Texas Instruments Wireless Terminal Business Unit

Texas Instruments Power Management

Raytheon **Photronics** The T-System **UTD** Engineering

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Galveston BEST No Sponsors Reported

Georgia BEST Siemens Energy and Automation Higginbotham and Associates

**Technical Laboratory Associates** 

Mechatronics Engineering, Southern Polytechnic State University Electrical & Computer Engineering Technology, Southern Poly

technic State University

Golden Lions No Sponsors Reported

Heartland BEST No Sponsors Reported

Jubilee BEST The Forum

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Davidson High School EPIC Program Faulkner State Community College

BakerBytes

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Cessna Aircraft Company Spirit AeroSystems Great Plains Ventures, Inc.

igus Solid Works

AIAA - Wichita Section WSU College of Engineering

Little Rock BEST

No Sponsors Reported

**Music City** No Sponsors Reported BEST

No Sponsors Reported

North Alabama No Sponsors Reported

North Houston Baker Hughes Inc.

Chevron Phillips FMC Technologies GJ Snyder

> Hydraulic Component Services Lone Star College System

Northark BEST North Arkansas College

Mountain Home Science and Technology Group

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Ed and Lisa Proctor Fashion Center Mall

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Home Depot Harrison AR Johnson Manufacturing Co. Lowes Hollister Mo John and Scherry Levy

Roger and Tommie Hall ADC Manufacturing IEEE Ozark Chapter

North Texas

**BEST** 

Texas Instruments Midway Mall

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OG&E

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**BEST** 

College, Career & Technical Education Division-SDOP

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U.S. Navy League

IRM igus SolidWorks

National Society of Black Engineers

Society of Manufacturing Engineers

River Valley **BEST** 

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Control Technologies, Inc. Custom Awards and Engraving

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NuStar Energy Foundation Southwest Research Institute Cutshall Consulting, LLC IBC Bank

McCombs Foundation

Security Service Federal Credit Union

Society of American Military Engineers, San Antonio Branch

**DRB Aviation Consultants** 

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Tennessee Valley Toyota

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Auburn-Opelika Tourism Bureau

CAD Academy

DEPCO

Rheem Manufacturing Technical Training Aids Toyota Motor Manufacturing

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Honda Motor Manufacturing

George Blanks, Ginn College of Engineering, Auburn University

**GEARS Educational Systems** 

GKN Aerospace

Hoar Construction

Instrumentation Society of America, Birmingham Chapter

Women in Science and Engineering (WISE) Institute,

Auburn University

Briggs & Stratton Foundation

Donaldson Foundation

Hyundai Motor Manufacturing of Alabama

Neptune Technology Group Southern Company Southern Nuclear Company

Wiregrass Foundation

**West Texas** BEST

XFab Semiconductor Foundries

Texas Tech University Whitacre College of Engineering

Texas Society of Professional Engineers

# **REGIONAL COMPETITIONS**

# **SPONSORS**



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South's BEST

and Marketing Vice President for Outreach, Auburn University Auburn-Opelika Tourism Bureau CAD Academy DEPCO

Rheem Manufacturing Technical Training Aids
Toyota Motor Manufacturing
VWR International

Brasfield & Gorrie Construction First Year Program, School of Architecture, Auburn University Honda Motor Manufacturing George Blanks, Ginn College of Engineering, Auburn University GEARS Educational Systems

**GKN** Aerospace **Hoar Construction** 

Instrumentation Society of America,

Birmingham Chapter Women in Science and Engineering

(WISE) Institute, Auburn University Briggs & Stratton Foundation

Donaldson Foundation Hyundai Motor Manufacturing of Alabama

Neptune Technology Group Southern Company Southern Nuclear Company Wiregrass Foundation



**Texas BEST** 

Texas Instruments Raytheon Lockheed Martin University of North Texas **UNT President's Council** UNT College of Engineering **Denton Convention** and Visitors Bureau **UNT Enrollment Management** 

# Financial Report

- BEST Robotics, Inc. is a 501(c)3 non-profit organization registered with the state of Texas.
- Each hub is financially independent, responsible for generating its own funding to cover the costs of its competition. They either form their own non-profit or operate as part of an educational institution.
- Hubs pay an annual licensing fee to BRI to use of the annual game materials.

| Statement of Activities<br>Fiscal Year Ending December 31, 2009 |           |  |  |  |
|---|-----------|--|--|--|
| Revenues  |           |  |  |  |
| Hub Contributions   | \$75,819  |  |  |  |
| Reimbursement of Material Purchases                             | \$12,317  |  |  |  |
| Total Revenues  | \$88,136  |  |  |  |
|   |           |  |  |  |
| Operating Expenses  |           |  |  |  |
| Management and General Material Purchases                       | \$ 45,109 |  |  |  |
|   |           |  |  |  |
| Operating (Loss) Gain   | \$43,027  |  |  |  |

|                            | December 31, 2009 | December 31, 2008 | Change      |
|----------------------------|-------------------|-------------------|-------------|
| Assets                     |                   |                   |             |
| Cash and Equivalent        | \$153,831.84      | \$113,389.50      | \$40,442.34 |
| Total Assets               | \$153,831.84      | \$113,389.50      | \$40,442.34 |
|                            |                   |                   |             |
| Liabilities and Equity     |                   |                   |             |
| Payroll Liabilities        | -\$7,178.76       | -\$7,178.76       | \$0.00      |
| Total Current Liabilities  | -\$7,178.76       | -\$7,178.76       | \$0.00      |
|                            |                   |                   |             |
| Equity                     |                   |                   |             |
| Opening Balance Equity     | \$23,015.39       | \$23,015.39       | \$0.00      |
| Retained Earnings          | \$97,552.87       | \$83,459.83       | \$14,093.04 |
| Net Income                 | \$40,442.34       | \$14,093.04       | \$26,349.30 |
| Total Equity               | \$161,010.60      | \$120,568.26      | \$40,442.34 |
|                            |                   |                   |             |
| Total Liabilities & Equity | \$153,831.84      | \$113,389.50      | \$40,442.34 |



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Technology
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