



# Pike RoboDevils Robotics

Team 1018 – Pike High School



Thank you for your interest in the Pike RoboDevils Robotics Team! We appreciate the time you have taken to learn more about our program.

The Pike High School RoboDevils Robotics Team exists to encourage the development of students' interests in the areas of math and science. By doing so, the program prepares young minds to work and thrive in our increasingly technological world and global economy. The team participates in a competition held by **FIRST** (For Inspiration and Recognition of Science and Technology), a program developed in 1989 in order to inspire more interest in the fields of science and technology. In this competition, our team designs, programs, and builds a robot that preforms an annually assigned task – all in the span of six weeks. This year, our team, number 1018, will compete against in two different regionals in March and April against over sixty teams.

The process of building and designing the robot is not an easy one. It has its expenses and must be completed within six weeks, which flies by unbelievably fast with so many things to get done. The journey from the first kit of parts and the first blank sheet on the drawing board to the completed robot participating in the competition is long and stressful, yet its value and benefits reach so far beyond robotics and competing. Through the program, students gain a priceless opportunity to experiment and explore their technological capabilities and gain exposure to several aspects of technology, including technical design, computer programming, and even business management.

However, in order to make this journey successful, the team needs support from the community on several different levels. One of the most effective ways to support the Pike RoboDevils Robotics Team is to sponsor us financially. By contributing monetary support, the team will be able to purchase necessary materials and tools to construct the robot; in return, we offer several benefits, including advertising space on the robot itself (see packet for more details about financial support). The team also needs mentors with training and experience, especially in the areas of mechanical design, in order to get through this six-week journey smoothly. Thirdly, sustaining in-kind support through product donations and discounts allow us to stretch our financial resources even farther. Any support offered will help and enrich the Pike RoboDevils and better ensure that students have opportunities and exposure to the areas of science and technology and prepare them to meet the growing demand for technologically adept individuals in today's world.

Please do not hesitate to contact us. Thank you for your time and interest in the Pike RoboDevils Robotics Team. We look forward to hearing from you!

Sincerely,

Mary Beard – Main Contact  
Pike High School  
[MLBeard@pike.k12.in.us](mailto:MLBeard@pike.k12.in.us)  
317-347-8319



# Pike RoboDevils Robotics

## Team 1018 – Pike High School

### What we represent:

FIRST team 1018 was founded by Bob Steele, Tom Loudermilk, and Stu Bloom in 2002 at Pike High School, a large urban school in the northwest corner of Indianapolis. The Pike RoboDevils are named after the school mascot, the Pike Red Devils.

Today, the team consists of around thirty students and eight mentors. Members are students of Pike High School. Mentors include engineers from Rolls-Royce, Pike faculty, college students at IUPUI, alumni, and other volunteers.

The RoboDevils are part of a larger organization called *FIRST* Robotics (**F**or Inspiration and **R**ecognition of **S**cience and **T**echnology). The mission of *FIRST* is to inspire young people to be leaders in science and technology by engaging them in mentor-based programs that build science, engineering, and technology skills, while also building self-esteem, life skills, and community awareness.

### Through the program, students are able to:

- Apply engineering principles to the design, build, and operation of robots for competitions
- Learn and use CAD and other engineering software
- Hands-on experience with multi-disciplinary collaborative problem solving
- Program robots for both autonomous and human operated modes
- Travel to competitions to
- Volunteer in their community
- Network with industry and engineering firms and companies

### Team Organization:

- 30 students
- 6 mentors
- 2 teachers

### Team Impact:

- Alumni in STEM fields
- Participation in community events, including Celebrate Science, Relay for Life, Black Expo, IUPUI Summer Camps, NSBE, Kids have Arthritis
- Participation in school events, including Pike High School's Open House, Safe Trick-or-Treat, Pike Township Literacy Fair, Freshman Orientation, and Pike's Homecoming Celebration



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As a FIRST Robotics Team, there are many costs associated with running a team. Below is a list of specific items that the team is fundraising money for, in addition to the general costs associated with running the team.

Item	Number Needed	Single-Item Cost	Final Cost
FLL Kits for Elementary Schools	8	\$500	\$4000
Robotics Kits	3	\$1500	\$4500
Team Trailer	1	\$3000	\$3000
Pit Equipment	1	\$3000	\$3000
2014 Field Pieces	1	\$1500	\$1500
Pit Banner and Sponsor Banner	1	\$500	\$500
Team t-shirts	120	\$10	\$1200
Mac Computer and Software	1	\$2000	\$2000
iPads / Tablets	6	\$500	\$3000
Camera	1	\$250	\$250
Laptops	3	\$1000	\$3000
Build Season Food	6	\$200	\$1200
Robot Materials Cost	1	\$4000	\$4000
Buses to Field Trips and Events	10	\$100-\$500	\$1000-\$2000

Beyond materials cost, the team is also in need to mentors that could help in the following areas:

Primary Mentor Roles	Role Description
CAD	Work with students focusing on the use of CAD from idea capture through assembly integration
Electrical	Work with students focusing on various aspects of electrical components from motor selection through wiring implementation and component placement.
Programming	Work with students focusing on target system and GUI software to support testing and operation of robots and robot features
Engineering Design	Work with the team to pick a strategy, design a robot, and manage robot creation, lead/advise on the design of a robot feature
Mechanical	Help students build a robot for the competition in March
Website	Teach students how to build and manage a website
Graphic Design	Create banners, logos, team handouts, and t-shirts for competition
Finance	Help students manage team funds and assist with fundraising
Prototyping	Assist with the design of the robot and teach the students how to create a basic prototype
Social Media	Work with students to manage social media sites



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## Degrees of Sponsorship

### Title Sponsor - \$5000+

- Tournaments: Your company thanked during competition alliance selections nationally televised on the Discovery Channel and invitation to travel to tournaments
- Robot: Large logo of business
- Banner: Large logo (displayed at events and tournaments)
- Team Shirts: Large logo on back of shirts (worn at events and tournaments)
- Website: Logo & link on sponsorship page and logo on first page
- Memorabilia: Thank you plaque and RoboDevils shirt
- Invitation to end of year celebration

### Platinum Sponsor - \$2000 - \$5000

- Robot: Medium logo of business
- Banner: Medium logo (displayed at events and tournaments)
- Team Shirts: Medium logo on back of shirts (worn at events and tournaments)
- Website: Logo & link on sponsorship page
- Memorabilia: Thank you plaque and RoboDevils shirt

### Gold Sponsor - \$1000 - \$2000

- Robot: Small logo of business
- Banner: Small logo (displayed at events and tournaments)
- Team Shirts: Small logo on back of shirts (worn at events and tournaments)
- Website: Logo and link on sponsorship page
- Memorabilia: Thank you plaque and RoboDevils shirt

### Silver Sponsor - \$100 - \$1000

- Robot: Business card size logo of business
- Banner: Business card size logo (displayed at events and tournaments)
- Team Shirts: Line of text on shirt (worn at events and tournaments)
- Website: Logo and link on sponsorship page
- Memorabilia: Thank you letter and RoboDevils shirt

### Bronze Sponsor - \$25-\$100

- Robot: Line of text with business name on robot
- Social media "Shout-out" on Team Facebook and Twitter page
- Memorabilia: Thank you letter



## Sponsorship Information

(Please print or type so we can accurately include your information)

Business Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_ Email: \_\_\_\_\_

Business Website: \_\_\_\_\_

**Please make checks payable to: Pike High School (in memo write RoboDeviIs)**

Give checks to your student contact, or mail to:

**Pike RoboDeviIs Robotics  
Attn: Mary Beard  
5401 W. 71<sup>st</sup> Street  
Indianapolis, Indiana 46268**

Student Contact: \_\_\_\_\_

Amount Donated: \$ \_\_\_\_\_ Check # \_\_\_\_\_ Cash \_\_\_\_\_

Material Donation: \_\_\_\_\_

## Thank you for your support!

*Your generosity is truly appreciated and will be put to great use!*