# The Robotomies

# FRC #1277

# **Groton-Dunstable Regional High School**



Robotomies Team Photo 2018-2019



### **TEAM & PROGRAM SUMMARY**

The FIRST Robotics Competition is an international program founded by Dean Kamen which stands for "For the Inspiration and Recognition of Science and Technology".

"FIRST was founded in 1989 to inspire young people's interest and participation in science and technology. Based in Manchester, NH, the 501 (c) (3) not-for-profit public charity designs accessible, innovative programs that motivate young people to pursue education and career opportunities in science, technology, engineering, and math, while building self-confidence, knowledge, and life skills."

- www.usfirst.org

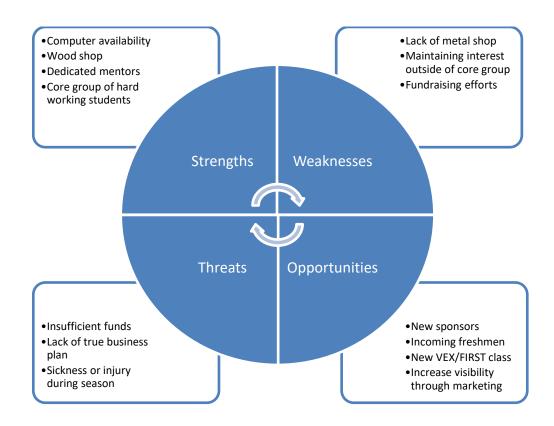
Groton-Dunstable Regional High School has participated in this competition since 2004. Our team – the Robotomies - typically consists of approximately 25-30 students and 10 mentors. Leadership is maintained by a volunteer lead mentor as well as a faculty advisor and a student captain. Students fill leadership roles within their sub groups as well.

Students work alongside both engineering and non-engineering professional mentors with the goal of designing, building, testing and competing with a robot in only six weeks. Although the build season starts in January, the team meets weekly throughout the fall to recruit new members, familiarize members with the technology that will be used, assign roles and firm up a business plan. Then, beginning with our attendance at the internationally-televised Kickoff Event in Manchester, NH in January, our team meets up to six days per week including a full day on Saturdays. These efforts culminate in our participation in two separate regional competitions in which we compete against as many as 39 other high school teams in the hope of moving on to the national finals.

Student participation in FIRST Robotics has been shown to lead towards increases in STEM career readiness as well as academic, social, and professional self-confidence. Improvement in communication, problem-solving and teamwork skills are also realized. With over \$20 million in college scholarships available to FIRST students, students enjoy financial advantages as well.

For complete information regarding the powerful impact FIRST programs have on students, visit <a href="http://www.usfirst.org/aboutus/impact">http://www.usfirst.org/aboutus/impact</a>.

## **SWOT ANALYSIS**



# PROJECTED TEAM BUDGET

Sponsors \$15,500 Fundraising \$2,000  Total \$17,500  Basic Expenditures:  FIRST Registration and Kit of Parts \$5000 Additional Robot Expenses \$5000 Field Pieces \$1000 Expendables \$100  Tools (Maintenance and Purchase) \$300 Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures:  Travel Expenses (Robot) \$200 Marketing Expenses \$400 T-Shirts for students and mentors \$400 Regional Finals (if successful) \$4000 Buses to field trips and events \$600  Total \$5,600	Income:	
Basic Expenditures:  FIRST Registration and Kit of Parts \$5000 Additional Robot Expenses \$5000 Field Pieces \$1000 Expendables \$100 Tools (Maintenance and Purchase) \$300 Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures: Travel Expenses (Robot) \$200 Marketing Expenses \$400 T-Shirts for students and mentors \$400 Regional Finals (if successful) \$4000 Buses to field trips and events \$600	Sponsors	\$15,500
Basic Expenditures:  FIRST Registration and Kit of Parts \$5000  Additional Robot Expenses \$5000  Field Pieces \$1000  Expendables \$100  Tools (Maintenance and Purchase) \$300  Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures:  Travel Expenses (Robot) \$200  Marketing Expenses \$400  T-Shirts for students and mentors \$400  Regional Finals (if successful) \$4000  Buses to field trips and events \$600	Fundraising	\$2,000
FIRST Registration and Kit of Parts \$5000 Additional Robot Expenses \$5000 Field Pieces \$1000 Expendables \$100 Tools (Maintenance and Purchase) \$300 Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures: Travel Expenses (Robot) \$200 Marketing Expenses \$400 T-Shirts for students and mentors \$400 Regional Finals (if successful) \$4000 Buses to field trips and events \$600	Total	\$17,500
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Field Pieces \$1000  Expendables \$100  Tools (Maintenance and Purchase) \$300  Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures:  Travel Expenses (Robot) \$200  Marketing Expenses \$400  T-Shirts for students and mentors \$400  Regional Finals (if successful) \$4000  Buses to field trips and events \$600	FIRST Registration and Kit of Parts	\$5000
Expendables \$100 Tools (Maintenance and Purchase) \$300 Off-Season Build Expenses \$500  Total \$11,900  Additional Expenditures:  Travel Expenses (Robot) \$200 Marketing Expenses \$400 T-Shirts for students and mentors \$400 Regional Finals (if successful) \$4000 Buses to field trips and events \$600  Total \$5,600	Additional Robot Expenses	\$5000
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Total \$11,900  Additional Expenditures:  Travel Expenses (Robot) \$200  Marketing Expenses \$400  T-Shirts for students and mentors \$400  Regional Finals (if successful) \$4000  Buses to field trips and events \$600  Total \$5,600	Tools (Maintenance and Purchase)	\$300
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Total \$5,600	Regional Finals (if successful)	\$4000
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Expenses Total \$17.500	Total	\$5,600
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#### **SPONSOR BENEFIT INFORMATION**

To help us meet the estimated costs in our projected budget, we are offering the following sponsorship packages:

(Each higher level package receives everything previous levels receive, plus whatever is listed.)

Stone Age: \$10-\$99

• Update letters on request

• Name appears on team1277.org sponsorship page

Bronze Age: \$100-\$499

Logo and link to company/organization's website appears on team1277.org sponsorship page

Iron Age: \$500-\$999

Logo appears on back of T-shirts

• One team shirt

Small logo on robot

The Renaissance: \$1000-\$2499

- Logo appears on back of T-shirts and sweatshirts
- One team shirt
- Medium logo on robot

Industrial Revolution: \$2500-\$4999

- Large logo appears on back of T-shirts and sweatshirts
- Two team shirts
- Large logo on robot

Machine Age: \$5000-\$9999

- Logo appears on front of T-shirts and sweatshirts
- Two team shirts plus one sweatshirt
- Large logo in preferred location on robot

The Future! \$10,000+

- Large logo in best location on robot with flashing lights illuminating it
- Two team shirts plus two sweatshirts
- Robot painted in your company colors
- Promotional photo taken with students, robot and you
- Naming rights to the robot

If you feel that you would like to sponsor Team 1277 - The Robotomies in this year's competition please contact Mark Rocheleau to discuss how you can help; or respond with your contact details, a letter indicating the tier at which you would like to sponsor the team, and a check for the appropriate amount. Checks should be made payable to GDRHS with "Robotomies" on the memo line. Donations are tax-deductible.

#### **MENTORING NEEDS**

In addition to financial assistance, the team would look forward to offers of expertise, use of facilities and provisions of materials in many of the following areas:

Marketing Business **Travel Logistics** CAD **Prototyping** Electrical Writing Finance Programming **Graphic Design** Photo/Video **Public Speaking Engineering Design Team Strategy** Mechanical Metal and Wood Working Social Media Website Maintenance

In-kind donations are welcome as well. Items we could use include:

Food/refreshments
Wood and metal working tools
Small enclosed trailer for transporting robot
Aluminum stock (flat, box, c-channel)
Miscellaneous hardware (nuts, bolts, washers)
Primary wire (assorted gauges 8-20)
Printing/embroidery services
...and other relevant items

## **TEAM CONTACT INFORMATION**

Website: www.team1277.org

Main Contacts:

George Shrady, Co-Lead Mentor gshr263@gmail.com

Britt McKinley, Co-Lead Mentor <u>brittain.mckinley@gmail.com</u>

Mark Rocheleau, Faculty Advisor mrocheleau@gdrsd.org

Mailing Address:

Groton-Dunstable Regional High School The Robotomies c/o Mark Rocheleau 703 Chicopee Row Groton, MA 01450

Telephone:

978-448-6362 x1211

If you feel that you would like to sponsor Team 1277 - The Robotomies in the upcoming competition please contact Mark Rocheleau to discuss how you can help; or respond with your contact details, a letter indicating the tier at which you would like to sponsor the team, and a check for the appropriate amount.

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