

# 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](http://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 (including our own locally-available Justin J. Maynard Memorial STEM Innovation Scholarship), students enjoy financial advantages as well.

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

# SWOT ANALYSIS



## PROJECTED 2019 TEAM BUDGET

### Income:

Sponsors	\$16,700
Fundraising	\$2000
<b>Total</b>	<b>\$18,700</b>

### Basic Expenditures:

FIRST Registration and Kit of Parts	\$5000
Additional Robot Expenses	\$4000
Field Pieces	\$1000
Expendables	\$100
Tools (Maintenance and Purchase)	\$300
Off-Season Build Expenses	\$500
<b>Total</b>	<b>\$10,900</b>

### Additional Expenditures:

Travel Expenses (Robot)	\$200
Travel Expenses (Hotels)	\$2000
Marketing Expenses	\$400
T-Shirts for students and mentors	\$400
Regional Finals (if successful)	\$4000
Buses to field trips and events	\$800
<b>Total</b>	<b>\$7800</b>
<b>Expenses Total</b>	<b>\$18,700</b>

## 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 the 2019 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](http://www.team1277.org)

Main Contacts:

Tom Peisel, Lead Mentor

[peisel@gmail.com](mailto:peisel@gmail.com)

Mark Rocheleau, Faculty Advisor

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Mailing Address:

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The Robotomies

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