

Robotics AND Beyond...

Inspiring young minds in STEM and design

501(c)3 IRS 20-8821398

EXECUTIVE OVERVIEW

December, 2016

MISSION OF ROBOTICS AND BEYOND

Our Mission is to help young people thrive in the technological world they encounter, discover talents, think and communicate effectively, create passionately, enjoy accomplishments, pursue fulfilling careers, give back, and become models for future generations.

To accomplish this mission, we strive to:

Help young people discover and develop their talents in Science, Technology, Engineering, Mathematics (STEM) and Design-related fields, and inspire entry to these fields through insight to careers and education paths and the use of relevant resources and projects.

Provide a highly novel, creative and inspiring environment, with resources and guidance that promote thinking, problem solving and experimentation while displacing fear of failure.

Foster individual confidence, and communication and collaboration skills, through opportunities for individual students and team projects.

Serve young people with special learning styles by providing environments, projects and guidance that meet these talents and needs.

Promote an appreciation, interest and passion for teaching among young people through our innovative and highly effective Mentor and Intern development approach.

Improve the ability and confidence of school teachers to promote STEM and Design fields in their classrooms by providing Professional Development programs and effective, convenient instructional materials for their use.

REACH AND IMPACT OF THE FOUNDATION

Robotics And Beyond draws students from a 60 mile radius, from over 50 towns in western CT and eastern NY and NY City.

From 2004-2015 Robotics And Beyond has achieved the following milestones:

Students served	1020
Student hours	27,000+
Student return rate	>90%
Peer mentors	110
Internships	10
Peer mentor & intern hours	9,700
Adult volunteers	55
Adult volunteer hours	5,400

ACTIVITIES OF THE FOUNDATION

In-house classes and programs for students: after-school, weekends, evenings, vacation days, summer camps, single-day workshops, multi-week classes.

Off-site classes and programs for students: libraries, social service agencies, home school networks, public and private schools, scouting groups.

Public service: exhibits and lectures and interactive events; provide refurbished computers and computer servicing to families in need; connect students with adult mentors.

Business community: provide candidates for internships, apprenticeships and part-time/summer jobs.

Student population: k-12, college, adults, special learning needs (youth and adults)

Technical topic examples: electronics and electrical engineering; mechanical engineering; machine and product design; graphic design; coding; aviation; robotics; web development; computer science; mathematics.

Peer mentor development: beginning as early as 6th grade and continuing through high school and college.

Career perspective and guidance on education paths: contributed by adult professionals and current college students.

Professional development workshops: for teachers and students in college certification programs

SUPPORT NEEDED

Sustaining funds for operations and capacity building

Tuition assistance funds

Donor matching funds

Program and topic sponsorships

MEASURING OUR SUCCESS AND YOUR IMPACT

Number of students served and percent returning

Increased involvement by underserved demographics (economically disadvantaged, special learning needs, cultural minorities, female participation)

Careers and education paths chosen by students

Adult and student volunteer hours leveraged