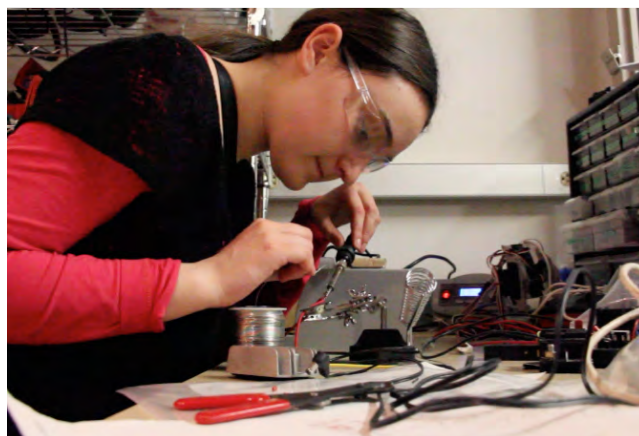


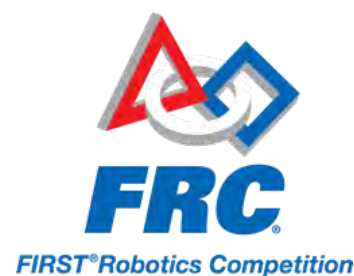
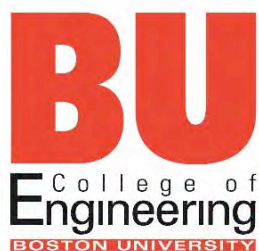
FIRST Team 246 Overclocked

Boston University Robotics



About Us

The Boston University Robotics team is more than just about building robots. We are **building a team** of students from BU Academy who **collaborate** with each other and their **mentors** from Boston University. This team works together to develop students' skills in entrepreneurship, engineering, software development, and manufacturing. We don't stop at mentoring BUA students—our students are youth mentors themselves, passing along skills to younger students and peers in local schools.





Congrats, Seniors!

Team 246 Overclocked wishes its seniors the best of luck in college and their future endeavors. Thank you for your dedication!

Zach Bilech (Cap.)
Jacob Fucci (Cap.)
Daniel Gorelik (Cap.)
Cathryn Hart (Cap.)

Alex Hubik
Gadiel Sznaiier-Camps
Audrey Wang

Mentors

Gary Garber, BUA
Kanav Dhir, BU-ENG
Emily Stern, BU-ENG
Armaan Vachani, BU-ENG
Raymond Li, BU-ENG
Brandon Chung, BU-ENG
Andrew Colletta, BU-ENG
Leah Magid, BU-SAR
Matt Uvena, BU-SMG
Mark Grimm, BU-SMG
Paul Heayn, BU-SUMG
Ashley Brueske, FIRST VISTA
Sam Duffley, iRobot
Ryan Lagoy, BAE
Kostya Nazarenko, PTC

Dear Sponsors,

*Thanks to your support, we had another great season at Team 246
Overclocked, the Boston University Robotics Team.*

We had highly successful FRC and VEX Robotics Competition Seasons. We were the second seeded alliance captains at Northeastern District Event, where we also won the Creativity Award. Our successes earned us a spot at the FIRST New England Championship. We also won numerous awards at local VEX competitions, including the Excellence, Design, Think, and Judges awards, as well as Tournament Champion. Our season highlight was winning the Programming Skills award at the VEX New England Championship, which earned us a slot at the VEX World Championship in Anaheim, CA. The VEX IQ team that we mentor, Overclocked Mindfigures, went on to win the Excellence Runner-Up Award at the same New England Championship, and went onto the World Championship as well.

This season, we strengthened our relationship with our lead sponsor, Boston University, as well as several new corporate sponsors. We had a tight group of Boston University undergraduates



and alums that mentored the team. We developed a relationship with local software company PTC, where engineers from their company ran a CAD workshop for our team members, and mentored our team on a regular basis. Our level of using CAD to design the robot in the design and planning stages reached a new level for our team. We also developed a strong relationship with BAE Systems; an engineer from BAE helped mentor our students and undergraduates, taking on the role of lead engineering mentor. Engineers from iRobot and Boston Scientific also helped our team. At the end of our FRC design period, we presented the results of our initial designs and prototyping to a Design Review Panel consisting of Boston University Professors, and engineers from the above companies.

Team Members

2015

Colin H.
Weston H.
Remy K.
Danny M.
Nell W.

2016

Jordan F.
Owen G.
Eric H.
Evelyn H.
Janina H.
Oliver J.

2017

Eli B.
David G.
Kumael J.
Mark K.
Hannah L.
Nelly L.

Jacob N.
Aris P.
Ina S.
Ariele X.

Dear Sponsors, continued

This was a record year for the number of competitions our team competed in. Our FIRST FRC team attended two district events, the New England Championship, and two post-season tournaments. Our three VEX robots attended seven local events in addition to the New England Championship and the World Championship in California. Along the way, we developed our mentorship with Boston University students from the College of Engineering, the College of Arts and Science, and the School of Management, who helped us with many different aspects of our team, including building, designing, and marketing.

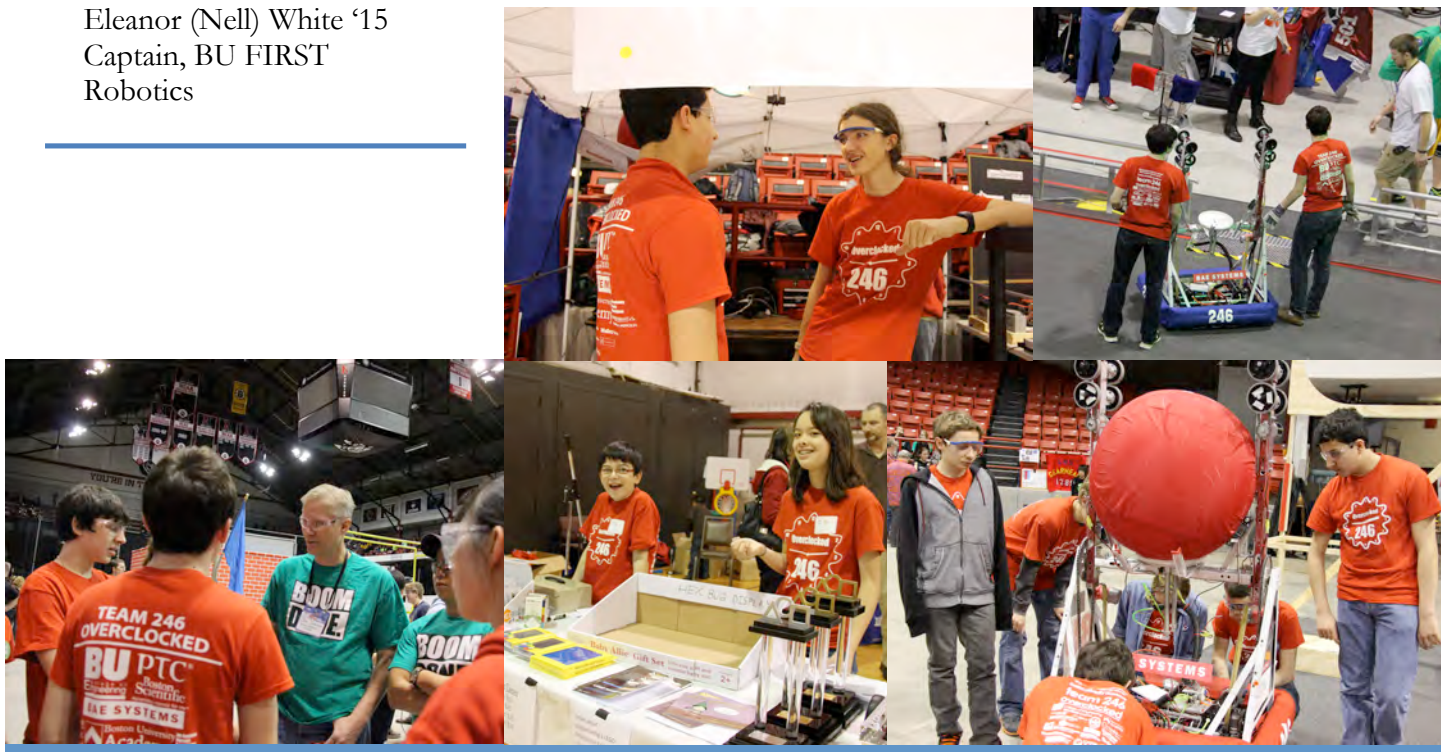
This year wasn't just successful in competitions. It was a great year for outreach, too. Each member of the team contributed at least 12 hours of robotics related community service; we totaled over 1,200 hours! We hosted three tournaments this year, one each in the VEX Robotics Competition, VEX IQ Competition, and FIRST Lego League (FLL) platforms. We also continued to volunteer at the BU College of Engineering U-Design summer camp, which exposes middle school students to engineering and the design process.

Over the year, we demonstrated our award-winning robot at several events, including Xconomy 2034 and the PTC Live Global Event. We also developed our outreach program with the Mass Pre-Engineering program for middle school students. What began as a summer program evolved into a weekly Saturday workshop during the Academic Year. While we started out using LEGO Mindstorm kits, our team captains developed and taught a curriculum using Arduinos and robot kits from a small local company called Machine Science. We had a lot of fun sharing our excitement about robotics outside of the competition field.

We had an amazing year, and can't wait for whatever comes next. Thank YOU for your support this past season and beyond!

Eleanor White

Eleanor (Nell) White '15
Captain, BU FIRST
Robotics



Thanks to your support,

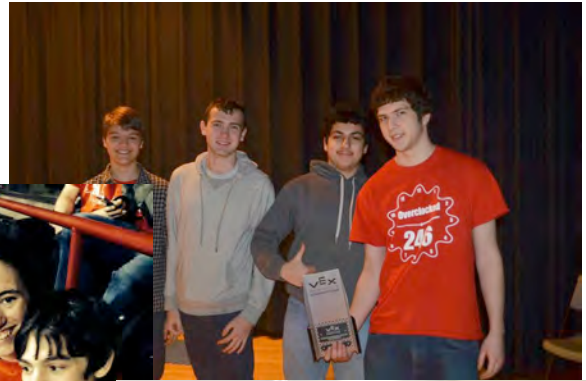
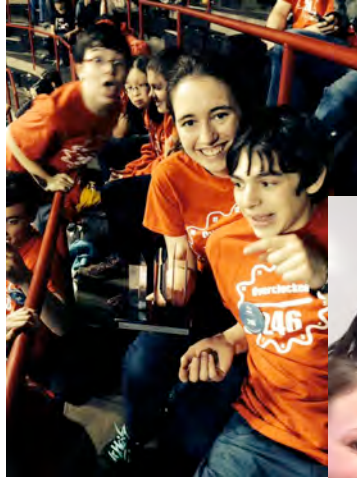
We had another great season!

FRC:

- Xerox Creativity Award (Northeastern)
- Second seed alliance captain (Northeastern)
- Runners-up Award (WPI BattleCry)

VEX:

- Programming Skills
- Tournament Champions (x2)
- Excellence Award
- Design Award (x2)
- Think Award
- Judges Award



VEX Worlds!

We qualified for the VEX World Championship in Anaheim, CA! In addition, the VEX IQ team we mentor also qualified! We had an awesome time, and hope to qualify again next year.

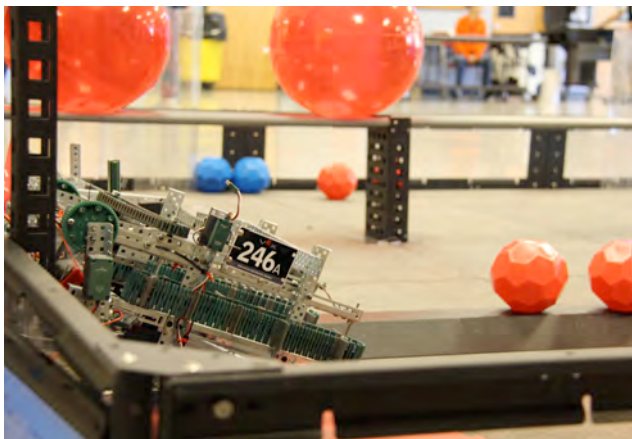




PTC CAD Workshop

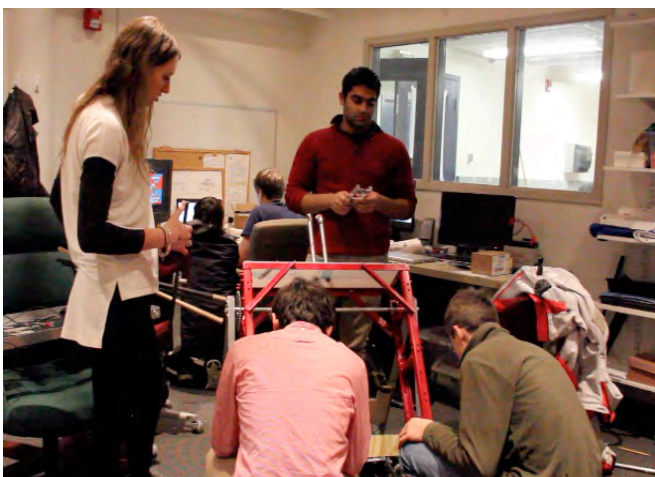
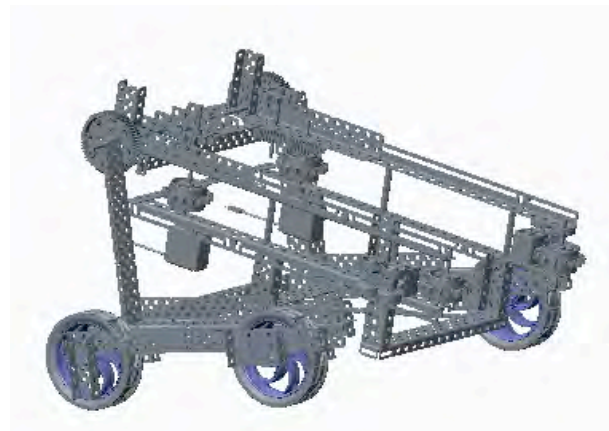


Design Review Panel



VEX Team 246A Robot

VEX Team 246A Robot CAD



Working with Mentors Emily and Kanav



Demo at Xconomy 2014

Looking forward:

Here are some of our plans for the upcoming season:

- i. We have recruited a new Lead Technical Mentor: a veteran FIRST Coach who started the Chief Delphi Team, works at iRobot, and has been involved with FIRST for over 20 years.
- ii. Raise the level of engineering expertise to build and compete with world-class robots
- iii. Raise the level of projects to challenge not just our students, but our undergraduate mentors as well
- iv. Build on our work with PTC CREO by designing and planning our robot in CAD
- v. Provide a firm base for FIRST VISTA AmeriCorps volunteers to do outreach from our lab
- vi. Develop our elementary level outreach by mentoring more FLL teams, and hosting JFLL and VEX IQ tournaments
- vii. Continue to develop our outreach with the Mass Pre-engineering Program.

Expenses 2014

| | |
|--------------------------|-----------------|
| Registration fees ... | \$11,600 |
| Travel fees ... | \$12,000 |
| Materials ... | \$4300 |
| Tournament expenses ... | \$2,200 |
| Science team ... | \$300 |
| Technology ... | \$300 |
| Entrepreneurship ... | \$2,200 |
| Stipends for mentors ... | \$6,700 |
| TOTAL ... | \$39,600 |

Thank you, Sponsors:

Platinum

Boston University College of Engineering
Boston University Academy

Gold

Boston Scientific
BAE Systems
PTC
BUA Alumni
BUA Parents

Silver

Pfizer
Blockbuster Strategy Group
Smallworks

Bronze

SumoCoupon
BUA Parents Association
eSTEM
Bolt Depot
Web Host Coupon
Wallet Hero

Contributors

Wood Stairs
Blue Promo Code
Fast Transcripts
Coupon Lawn
Check Scene
Select Aware
Google
Personal Loans
Reilly Realtors
Cash Advance Boston
Konica Minolta Sensing Americas