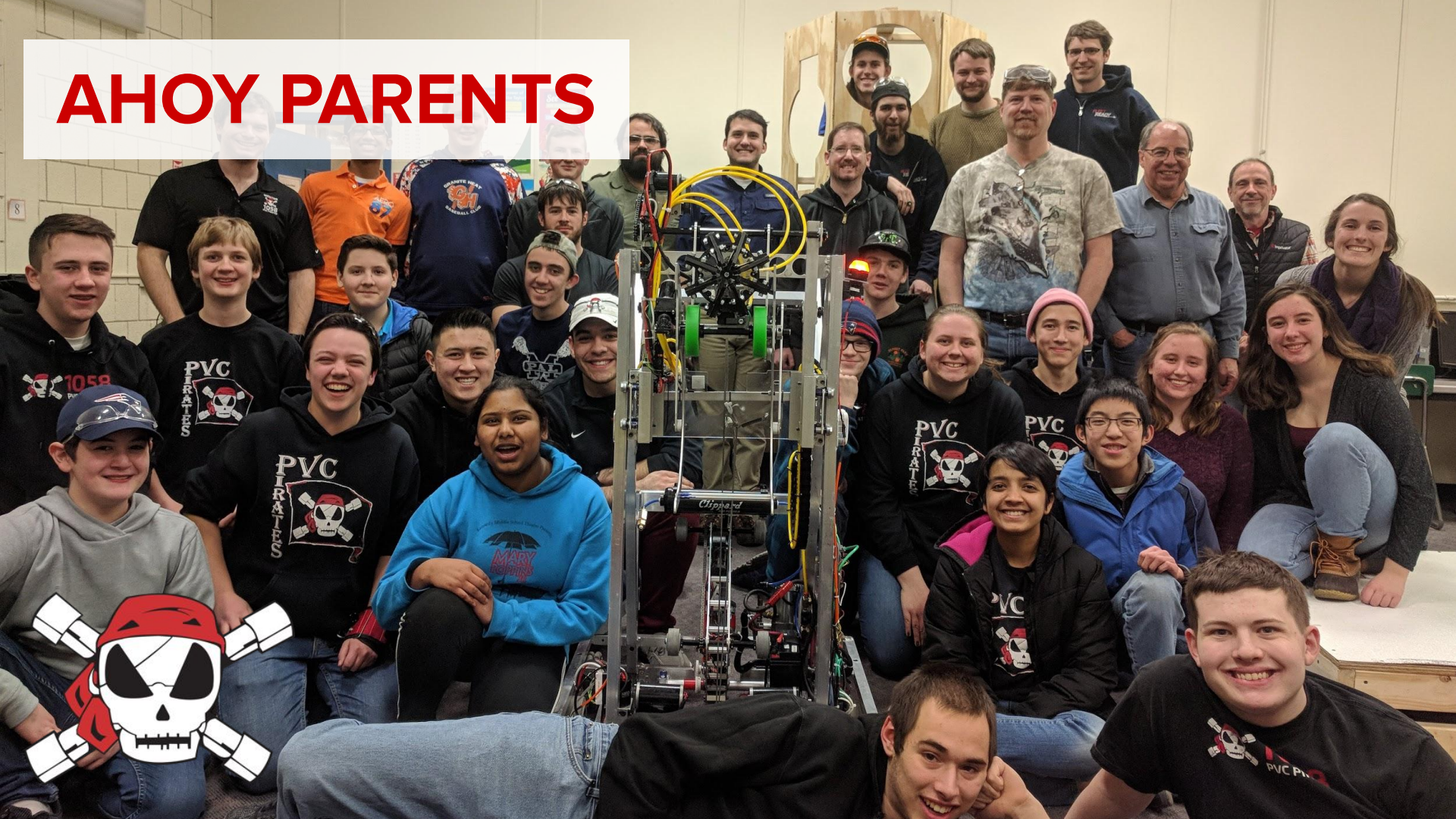


# AHOY PARENTS







Londonderry High School Robotics • FRC Team 1058 • PVC Pirates





# FIRST



STEM inspiration

Leaders and innovators

**MORE THAN ROBOTS**

Varsity sport for the mind

[firstinspires.org](http://firstinspires.org)

# FIRST



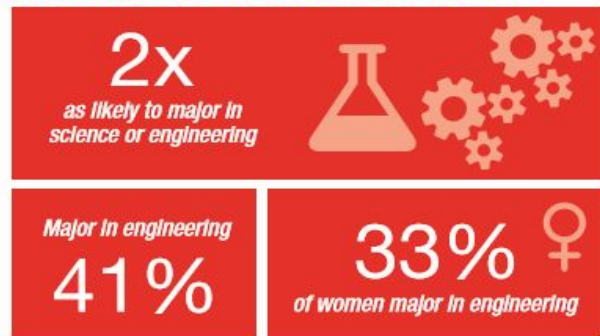
**MICHELLE**  
FIRST Student



# FIRST® IMPACT

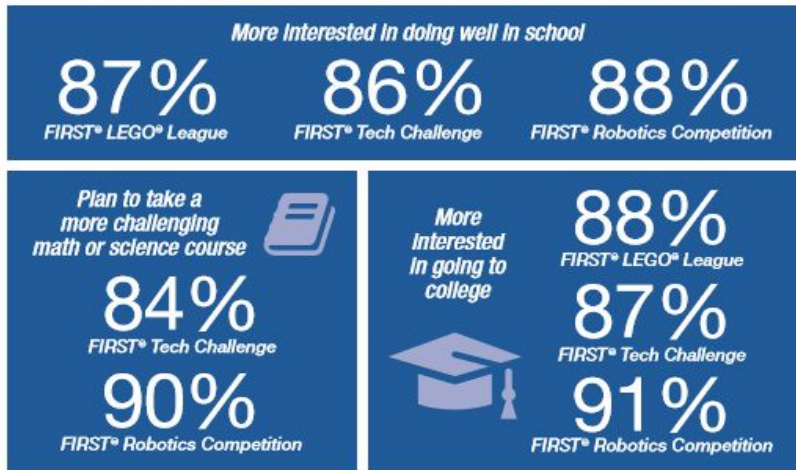
10 years of evaluation data indicates that with participation in **FIRST®** team members are:

## STEM MAJOR CITED BY FIRST PARTICIPANTS



Source: Brandeis University, 2005 Evaluation of FIRST® Robotics Competition Alumni

## SCHOOL ENGAGEMENT INCREASES FOR FIRST PARTICIPANTS



Source: Brandeis University, 2011 FIRST® Tech Challenge – FIRST® Robotics Competition Evaluation and 2013 FIRST® LEGO® League Evaluation

## 21ST CENTURY WORK-LIFE SKILLS GAINED BY FIRST PARTICIPANTS



REV 1/17

Source: Brandeis University, 2011 FIRST® Tech Challenge – FIRST® Robotics Competition Evaluation and 2013 FIRST® LEGO® League Evaluation

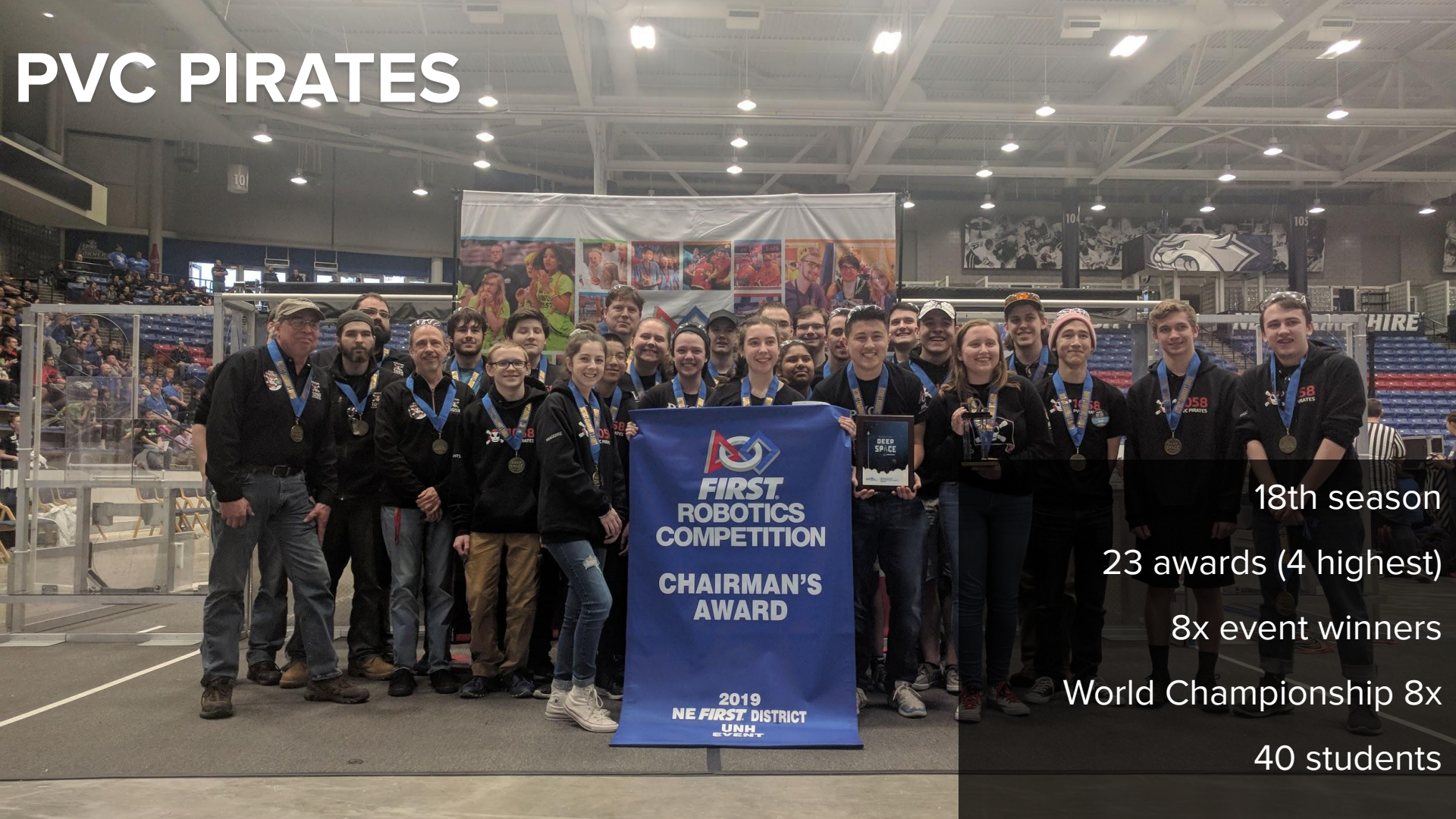
## FIRST ALUMNI IN STEM CAREERS



Source: FIRST, 2015 FIRST Alumni Survey



# PVC PIRATES



18th season

23 awards (4 highest)

8x event winners

World Championship 8x

40 students



# 2019 REVEAL VIDEO





# VOLUNTEER MENTORS

A group of students and a mentor are working in a workshop. The mentor, an older man in a grey jacket, is standing on the left, observing the students. The students, mostly young men, are gathered around a large workbench. One student is using a circular saw, another is using a drill, and others are working with various tools and materials. The workshop is filled with equipment, including a lathe, a mill, and various toolboxes. The background shows a concrete block wall and a red fire door.

17 mentors

82% alumni

170+ years FIRST



# TEAM WORKS



**Machining/fabrication**

**Welding**

**Assembly**

**Gears**

**Drivebase**

**CAD**

**Pneumatics**

**Scouting**

**Control systems**

**Software**

**Electronics**

**Soldering**

**Strategy**

**Safety**

**Training**

**Outreach events**

**FLL team**

**Writing**

**Presentations**

**Public speaking**

**Photography**

**Video production**

**Public relations**

**Social media**

**Graphic design**

**Logistics**

**Communications**

**Accounting**

**Sponsor relations**

**Scheduling**

**Fundraising**

**Purchasing**

**Web design/dev**



# OFFSITE FACILITIES

A photograph of a workshop or machine shop. In the foreground, there's a workbench with various tools, a blue container, and a red can. Behind it, a large industrial machine, possibly a CNC mill, is visible. To the right, there's a lathe and a welder. The room has white walls, a blue baseboard, and a window in the background. The floor is concrete.

New This Season

Donated Machines

CNC Bridgeport

Milling Machine (2x)

Lathe (2x)

Welder

Drill Press

Work Benches

Assembly

Mentor-Provided Transportation

Permission form required



# STRUCTURE

Lead mentors + Mentors

Captain

Marketing

Donations

Inspiration Coordinator

Outreach

Events

Operations Coordinator

Construction

Logistics

Engineering Coordinator

Robot Systems

Control Systems

Performance





# A PIRATE YEAR





# BUILD & COMPETE

**JAN 4**

**KICKOFF!**

**JAN 5 week**

Field build

Brainstorm

Design

Prototype

Software

**JAN 12 week**

Prototype

Drive base

Software

**JAN 19 week**

Drive base

Components

Electrical

Software

**JAN 26 week**

Build

Electrical

Software

**FEB 2 week**

Final build

Assembly

Test

Tweak

**FEB 9-26**

Observe

Refine

Test

Practice

**GRANITE STATE (Salem)**

**SOUTHERN NH (Bedford)**

**NEW ENGLAND CHAMPIONSHIP (Spfield)**

**WORLD CHAMPIONSHIPS (Detroit)**

**FEB 27 - 29**

**MAR 27 - 29**

**APR 8 - 11**

**APR 29 - MAY 2**



# BUILD & COMPETE

**JAN 6**

KICKOFF!

**JAN 7**

Field

Brain

Desi

Proto

**JAN 11**

**JAN 21**

**JAN 28**

**FEB 4**

build

ably

**FEB 11-20**

Test

Practice

STOP!





# FUNDING

\$25K+ annual budget

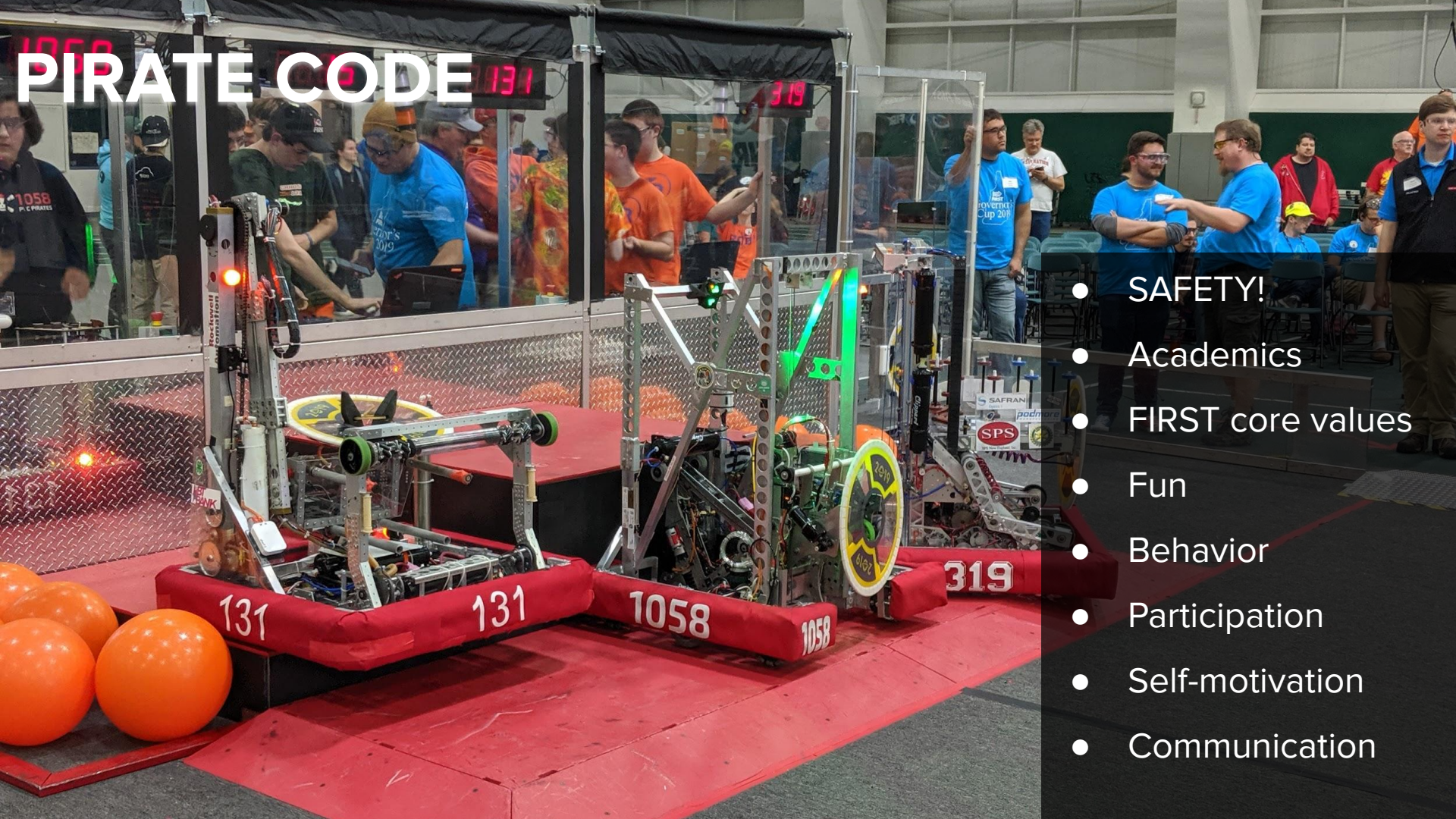
8 business sponsors

Fundraising!





# PIRATE CODE



- SAFETY!
- Academics
- FIRST core values
- Fun
- Behavior
- Participation
- Self-motivation
- Communication



# COMMUNICATION & TOOLS



[frcteam1058@gmail.com](mailto:frcteam1058@gmail.com)

[Team1058.com](http://Team1058.com)

[@frcteam1058](https://www.instagram.com/frcteam1058)



# ME HEARTIES

A photograph of the interior of a school bus, filled with students. The students are seated in rows of blue seats, and some are looking towards the camera. The bus has overhead storage bins and fluorescent lighting. The text 'ME HEARTIES' is overlaid in the top left corner.

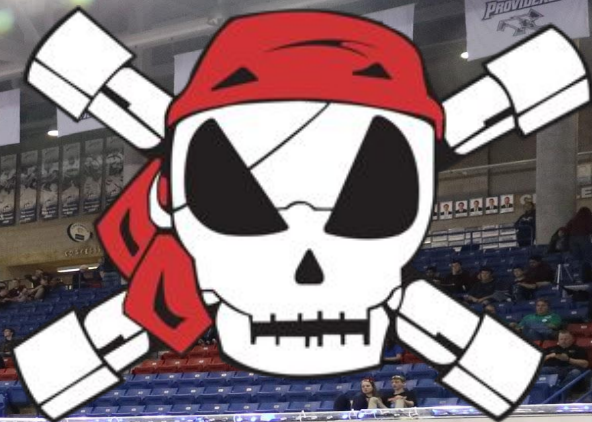
Playing field construction  
Event Coordination & Transportation

Food

Supervision

BE A MENTOR!





THANKS

