

# **ENGLAND MENTOR CONFERENCE**

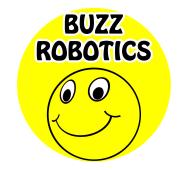




# Mini Presentations

**Your BEST ideas!** 





# Fundraising for All

Creating Buy-In While Reducing Barriers to Participation

# Caroline Marr **Buzz Robotics 175**

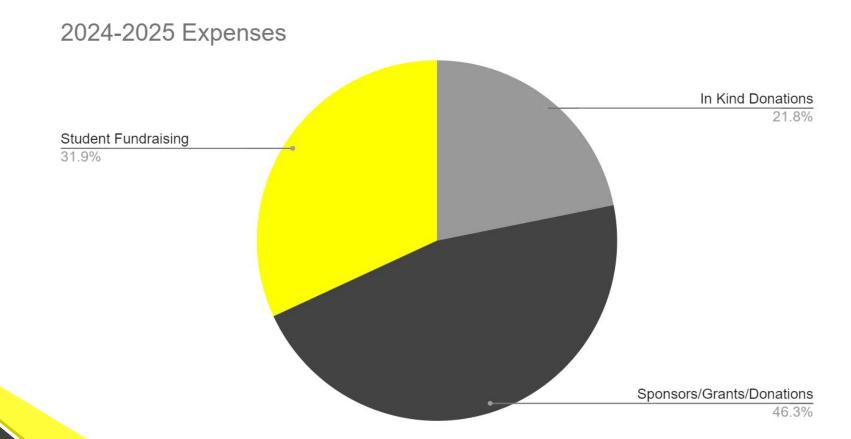
- **Buzz Robotics Alum**
- FIRST Volunteer (19 years)
- Buzz Robotics Mentor (9 years)
- Math Teacher (8 years)







## What do I mean by student fundraising?



## Why do we fundraise?



#### Team Policies







Fundraiser Choice



### **Team Policies**



- Each year, we set a team fee that all students are responsible for
  - \$650 as of right now
- Students may fundraise all or part of their team fee
- All students are required to participate in fundraising
  - Not allowed to pay entire fee
- Team plans enough fundraisers for students to raise full amount
  - Planning is shared between mentors, students, and families
- Money split between students according to contribution
  - For group events, profits are split between students who contribute/attend
  - For individual sales, all profit from their sales goes directly to the student

# Team Policy Challenge What if a student raises more than \$650

#### Money Goes to Team

#### Pros:

- All students responsible for own fundraising
- Hardworking students can raise overall team budget

#### Cons

- Disincentivizes students fundraising over \$650
- Creates challenges for students without local connections
- Encourages students to find "creative" solutions

#### Donate to other students

#### Pros:

- Incentivizes students to fundraise extra to help funds
- Students have the opportunity to help their friends
- Students with fewer local connections can get help from those with more

#### Cons

- Allows some students to coast based on the effort of others
- Can make some students feel left out
- Some student privacy issues

#### Fundraiser Choice

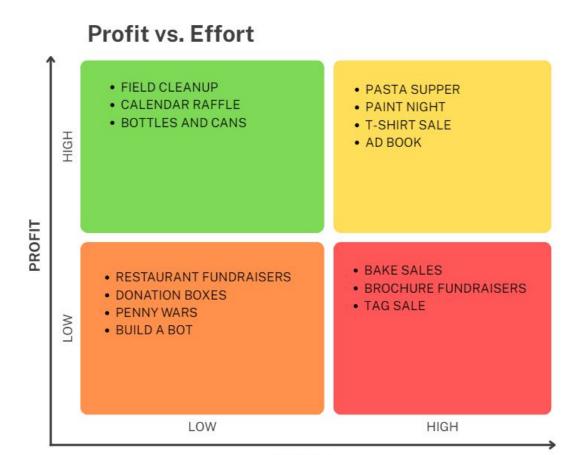
- All fundraisers should make >\$1000
  - Exceptions can be made for very low effort fundraisers
- Plan fundraiser calendar in advance
  - Avoid over-taxing the same groups
  - Match fundraisers to most profitable time frames
  - Select appropriate fundraisers for team energy level
- Avoid low profit margin sales
- Play to team strengths
  - For us: Focus on team-planned events and activities







### **Fundraiser Choices**



## Fundraising Successes

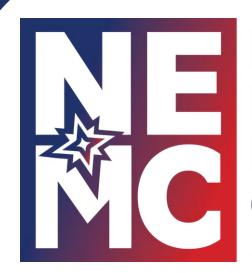
- Team fee fully funded:
  - No student has paid any amount of team fee for two years
- 2024 Worlds:
  - Team attended worlds in 2024 for the first time since pandemic
  - All students who wanted to attend were able to attend
  - Students did not pay at all to attend worlds
  - Key mentors also able to attend without paying





## Future goals

- Solve issue with students who over-fundraise
- Continue to support students who struggle with fundraising
- Incorporate incentives for acquiring grants/sponsors



# **ENGLAND MENTOR CONFERENCE**





# **Competitive Mentality**





#### About Me - Sean Stevens

#### **FRC Stats**

- Team 341 Alum: 2009 2012
- Team 341 Mentor: 2014 Present
- Team 341 Drive Coach: 2015 Present
- Strategy, Design, and Mechanical

#### **Education and work**

- Drexel University class of 2017
  - BS/MS in EE
- Work for ASI Drives as an EE
  - Motor performance









### The fire we gather around



The robot is a tool that helps us accomplish our other goals:

- Grow
- Challenge ourselves
- Face adversity

Trying to build the best robot possible fuels student growth

Positive feedback loop



# **Growth Mindset**





#### Play to improve

- Focus on the process of playing, not the results
- Every opportunity to iterate is a chance to get better
- Show up with a game plan
- Be relentless about the details
- Learn from your mistakes and correct them
- One match at a time





# Other important topics





#### "You can't be great without the greatness of others"

- FRC is built so you <u>MUST</u> depend on other people
  - Teammates
  - Mentors
  - Alliance partners
  - Volunteers at your events
- Understand your role and work to be great at it
- Help as many people get better as possible





#### Rent is due everyday



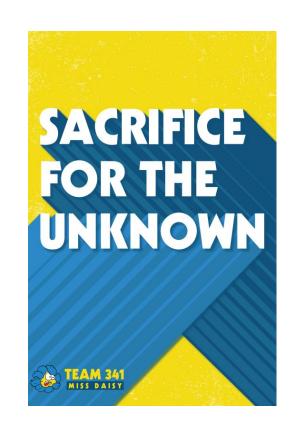
- "Success is never owned, only rented"
- Pay the rent by:
  - Working hard
  - Caring about your work
  - Trying to improve
  - Trying to keep a level head
  - Not having an ego
- If you keep paying the rent, you will keep moving towards success



#### Sacrifice for the unknown

"Sacrifice for the unknown." Be willing to give everything you have for something that may never happen. Take a leap of faith.

HERB BROOKS - DREAMER OF DREAMS





# Further reading



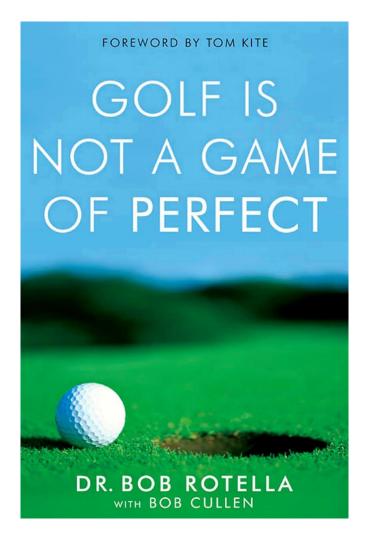


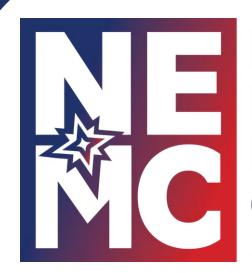
# Golf Is Not A Game Of Perfect

By Dr. Bob Rotella

Full audiobook available on YouTube!







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### **TEAM 1403**

- 100+ Students, 2 teachers, 2 mentors, and 6 parents
- 8 sub teams Logistics & Robot
- "We are a small business that doesn't generate revenue"





# BIG COUGAR, LITTLE COUGAR

- Ice breakers
- Design challenges

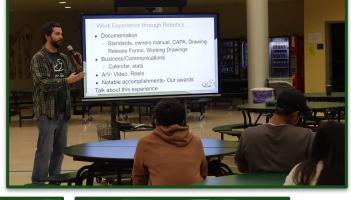






### **COUGAR CLASSES**

- Presentations on topics including:
  - Culture
  - Standards
  - Ethics
  - Business etiquette
  - Branding
  - College apps
  - Storytelling
  - Mental health
  - Cooking



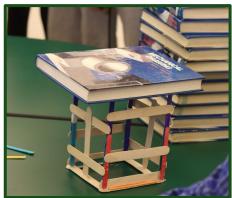






### **COUGAR CLASSES: DESIGN CHALLENGES**





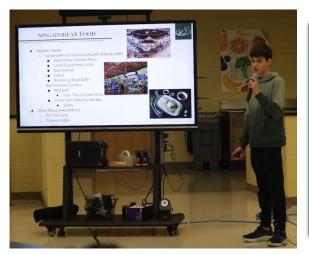






### **COUGAR CLASSES: CULTURAL**

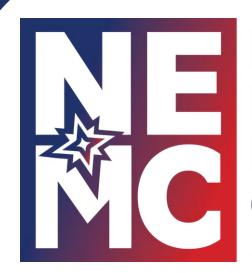
- Guest team presentations
- Students familial culture
- Team culture











# **ENGLAND MENTOR CONFERENCE**



## Talk Like a Robot

Levi Fitzpatrick

FRC 2064 The Panther Project Southbury / Middlebury, CT



# Goal

Conscience Knowledge



Better Outcomes



# Talking Like a Robot

"Breaking down robot functions and subsystems into their fundamental instructions."



### Identifying the Problem

- Varying Skill Levels
- Under Explanation
- Assumed Knowledge
- Changing interests
- Lack of inclusivity



## "The intake goes and gets a note."

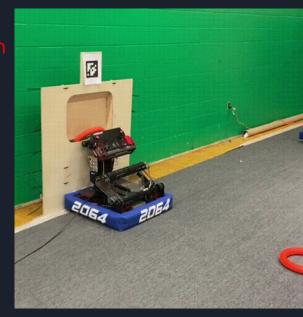
Intake rotates from a 'Stowed' Position to a 'Ground' Position

Intake wheels spin inwards

When we detect a note, stop intake wheels and transition to 'Handoff' Position

Intake wheels spin outward

Intake rotates from 'Handoff' Position to 'Stowed' Position





#### How This Relates to Student Success

- Students are more active participants in conversations
- Constant learning reinforcement
- Easier for them to pursue what their interests are on the team
- Clearer communication with everyone



## 6 Brick Back to Back Challenge

- Students pair off
- One builds a model, and then explains to the partner how to build the same model
- The partner builds without looking or asking questions







## Takeaways

- Talk in a way to accommodate students of every skill level
- Have meaningful discussions with students
- Reinforce learning at every step



## Talking Like a Robot

"Breaking down robot functions and subsystems into their fundamental instructions."

More Student Agency Better Communication

Knowledge Growth

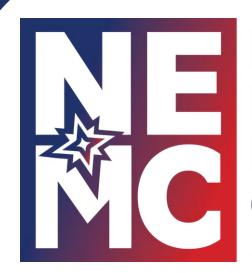






Levi@2064.team FRC@2064.team





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# Getting Started in Unified Robotics

Jamee Luce, FIRST Senior Mentor, Maine





#### **Unified Robotics: What is it?**

From the Special Olympics:

"Unified Sports joins people with and without intellectual disabilities on the same team. It was inspired by a simple principle: training together and playing together is a quick path to friendship and understanding.

In Unified Sports, teams are made up of people of similar age and ability. That makes practices more fun and games more challenging and exciting for all. Having sport in common is just one more way that preconceptions and false ideas are swept away."



## **Unified Robotics: Who participates?**

#### Mentors:

- Current Team Members
- Great way to recruit new members

#### Athletes:

High School aged students with intellectual disabilities

#### Adults:

- Current mentors and coaches who provide support as necessary
- Great way to recruit new mentors and coaches



## **Unified Robotics: Competition**

- Different in each state/region
- Reflect the core values of Special Olympics and FIRST
- Examples:
  - Maine: FIRST LEGO League Challenge Field Kit SUPERPOWERED
  - Massachusetts: FIRST LEGO League Challenge Field Kit REPLAY
  - Connecticut: FIRST LEGO League Challenge Field Kit REPLAY
- Competitions Examples:
  - Maine: Integrated into Pine Tree District Event
  - Massachusetts: Showcase at Greater Boston District Event
  - Connecticut: Showcase at Waterbury District Event
  - NE DCMP: Video showcase in FIRST booth





## Unified Robotics: How do I get involved?

- In New England, connect with your State Representative:
  - Maine, Vermont, Rhode Island:
    - Jamee Luce, <u>iluce@firstinspires.org</u>
    - Andrea Harvey, <u>aharvey@sad15.org</u>
  - Massachusetts:
    - Josh Miranda, <u>iosh@nutrons.com</u>
  - New Hampshire:
    - Jamie Deer, jamie.ellen525@gmail.com
  - Connecticut:
    - John Niski, <u>iniskifrc@gmail.com</u>





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