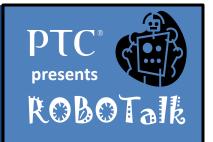


# PTC presents PED BOTO TO THE SECONDARY OF THE SECONDARY

How to build a robot from concept to competition

#### **WELCOME**



- Thank You for joining us!
- PTC Experts on this webinar, and our special guest!



**Jordan Cox** Director, PTC K12 **Programs** 



**Scott Morris** Windchill & Creo **Expert** 



Mark Cheli **Creo Expert & Webex Technical Assistance** 



Kari Karwedsky **PTC FIRST Program Manager** 



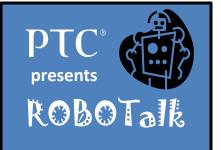
**Techno Warriors Advanced** 

FTC Team 3486

Our host,

David Price



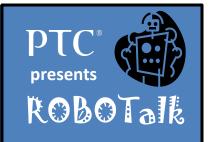


# WHERE CITY ARE YOU LISTENING TO ROBOTALK FROM?

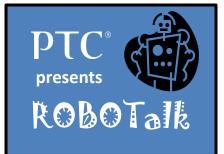
Poll Everywhere

Text 862734 and your message to 22333

#### **AGENDA**



- Why FIRST?!? David Price
- Poll Everywhere
  - Why are you involved with FIRST?
- CAD Data Management Scott Morris
- A Robot for "Cascade Effect" FTC Team 3486
- Poll Everywhere
  - What was your favorite part of ROBOTalk this season?
- Questions & Answers



#### WHY FIRST?!?

**David Price** 

# Serving F.I.R.S.T. and Changing the World



Engineers have a collective responsibility to improve the lives of people arour

Being a part of a F.I.R.S.T Team is the first step in

1. Serve to discover abundance: the radical realizing that you a part of something much bigger than shift from 'me' to 'we.

just YOU.

When you join a FIRST Team, you discover that often the most important things you have to offer are not things at all. You start to uncover the full range of resources at your disposal -- your time, presence, attention -- and recognize that the ability to give stems from a state of mind and heart, a place much deeper than the material. Inspired by the possibilities this opens up in every moment, you begin to discover humble opportunities to serve -- everywhere.

This process begins a shift from a meorientation to a we-orientation. You start to look at people and situations with an eye for what you can offer them and not vice versa. You break the tiresome tyranny of questions like "What's in it for me?" The mindset shifts from consumption to contribution.



### Being a part of a F.I.R.S.T Team in the first step in serving the world.

Such joyful gratitude becomes a foundation in service. When you acknowledge the fullness of your life, you can manifest a heart of service in any situation. In that sense, service doesn't start when we have something to give -- it blossoms naturally when we have nothing left to take. And that is a powerful place to be.

Yes, external change is required for the world to progress, but when coupled with inner transformation, it can affect the world in a radically different way. "We can do no great things -- only small things with great love," maintained Mother Teresa, a woman who made a difference to the lives of millions. It's a matter of what we focus on. Or, in other words, it's not just what we do that matters, but the inner impetus behind our action that really counts.



#### 3. Serve to transform yourself.

Any time we practice the smallest act of l.I.R.S.T and you will service, even if it's only holding a door new ways for somebody, but doing it with a full heart that says, "May I be of use to this person," that kind of giving changes the deep habit of being self-centered. In that brief moment, there is othercenteredness. That other-centeredness relaxes the patterns of the ego, a collection of unexamined, self-oriented tendencies that subtly influence our choices. This is why no true act of service, however small, can ever really be wasted.

To serve unconditionally in this way takes practice and constant effort. But with time and sharpened awareness, we begin to brush against the potential for transformation that is embedded in every act of generosity. It's a realization that "Oh -- when I give, I actually



### Being a part of a F.I.R.S.T and you will discover 4. Serve to honoroumperctions donter any merciting people and ideas

Over time, all of those small acts, those small moments, lead to a different state of being. A state in which service becomes increasingly effortless. And as this awareness grows, you inevitably start to perceive beyond individualistic patterns: each small act of service is an unending ripple that synergizes with countless others.

As Rachel Naomi Remen <u>puts</u> it, "When you help, you see life as weak. When you fix, you see life as broken. When you serve, you see life as whole." With that understanding, we begin to play our part -- first, by becoming conscious of the offerings we receive, then by feeling gratitude for them, and finally by continuing to pay forward our gifts with a heart of joy. Each of us hassuch gifts: skills, material resources, connections, presence -- everything we consider

ourselves privileged to hat to facilitate giving, we desync up with this vast "in

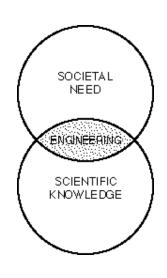
as tools art to 5. Serve to align with a natural unfolding.

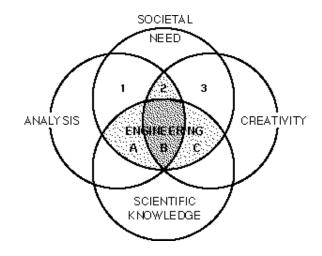
When we increasingly choose to remain in that space of servibe image at part to see F.I.R.S.T and you will discover new things. The needsorfntexticuts teatmany exciting people and ideas situation become clearer, we become instruments of a greater order and consequently our actions become more effortless. When a group of people perform this kind of service as a practice, it creates an ecosystem that holds a space, allowing value to emerge organically. All of this indirect value, the ripple effect, has space and time to add up, synergize with other ripples, and multiply into something completely unexpected. In humble fashion these ripples continue to seed unpredictable manifestations. Such an ecosystem can have its plans and strategies, but places more emphasis on emergent co-creation. So a lot of the ripples will remain unseen for years; some perhaps will be the basis for a seventh-generation philanthropy. It doesn't matter, because they are

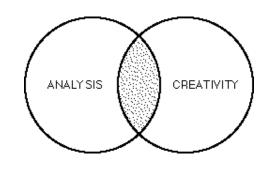
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## Engineering is at the Center





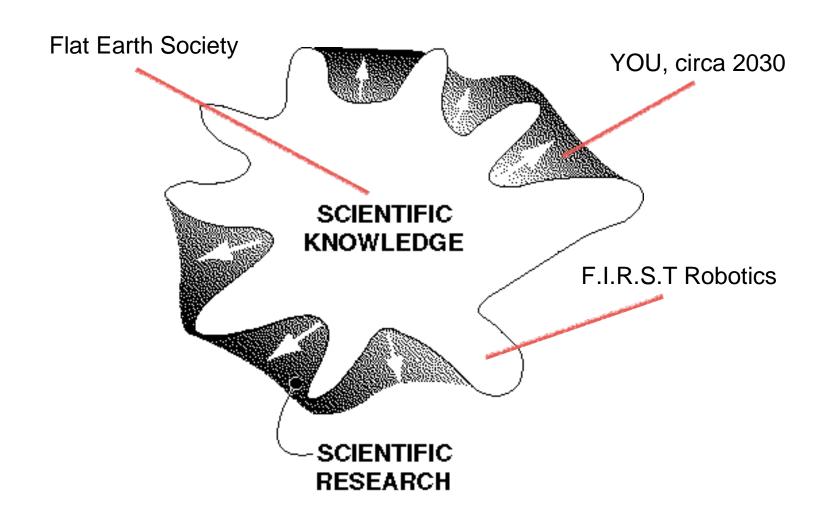


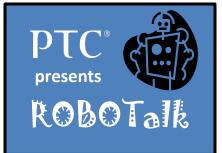
Engineering solves society's needs with current scientific knowledge.

Engineering as at the center.

At the center of being creative and analytical is the world of engineering.

### Where do YOU want to be?

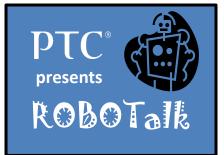




## WHY ARE YOU INVOLVED WITH FIRST?

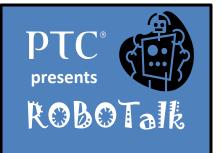
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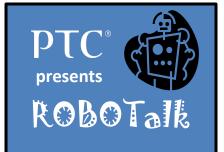
#### CAD DATA MANAGEMENT

Scott Morris



## A ROBOT FOR "CASCADE EFFECT"

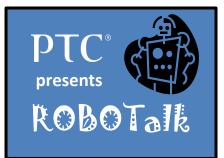
FTC Team 3486



# WHAT WAS YOUR FAVORITE PART OF ROBOTALK THIS SEASON?

Poll Everywhere

Text 446902 and your message to 22333



## ASK THE EXPERTS... QUESTIONS?