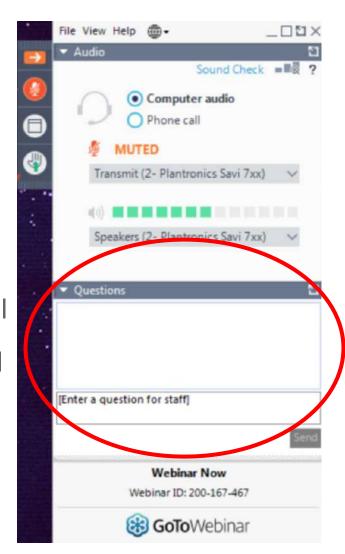


STEM Connections for Career Pathways



Quick Notes

- Everyone is in listen-only mode
- Use the questions toolbar at any time
- Questions for our panel will be asked during Q&A
- Today's webinar is being recorded and will be shared within 3 business days by email



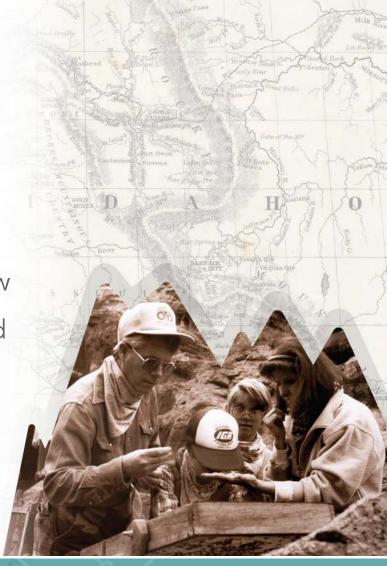


STEM Connections for Career Pathways



About PCS Edventures!

- Started as Pat's Computer School in 1988
- Grew to network of experiential learning centers in Idaho, Washington and California
- PCS Edventures learning solutions are now in more than 7000 sites in all 50 states and over 17 other countries
- Philosophy of hands-on projects that fuel a passion for learning and a lifelong love of STEM





Our Products









- Turn-key solutions (everything included)
- Team programming for up to 30 students
- Student driven individual kits
- Curriculum sparks interest in STEAM
- Drone collection programming facilitates career exploration
- Training and support



Our Customers



K-12 classrooms

Summer schools



After-school programs

Libraries and makerspaces













Agenda

- 1. Panel Introduction
- 2. Drones as an Instructional Platform
- 3. The RubiQ Drone
- Funding Drone Programs
- 5. How to Get Started
- 6. Q&A
- 7. Wrap-Up
- 8. Survey





Today's Moderator

Jim Schmidt, Ed. D.

- Over 20 years experience in Public School Administration
- Key role in the creation of the Dehryl A.
 Dennis Professional Technical Center one of the top CTE high schools in the Pacific Northwest
- Strong background in industry partnerships and workforce development
- Managed numerous statewide STEM professional development training programs
- Joined PCS as a consultant in 2007



Jim Schmidt
Ed. D.
Dir. of Professional
Development



Panelists



Kellie Dean

Assistant Principal Gem Innovations Meridian, Idaho

30 Years in Education
STEM Curr. Director and Trainer
Instructional Coach
Gifted and Talented Coordinator



Justin Touchstone

TSA State Advisor Idaho TSA Boise, Idaho

Engineering Technology Ed.
Program Quality Manager
Idaho Career & Technical
Education



Matt Koosmann

CTE STEM Teacher North Tapps Middle School Bonney Lake, Washington

22 Years Middle-School
Science Teacher
8 Years CTE STEM Education
2D/3D CAD, Robotics, Game Design, Drones



Discover Drones

How do you use drones as an instructional platform?





Kellie Dean



How do you use drones as an instructional platform?

- Implementation of drones
- Age
- Group size
- Exposure = opportunity



Justin Touchstone



How do you use drones as an instructional platform?

- Work with teachers for integrating drones into the classroom
- Project based learning environments
- Drones in both the classroom and student organizations
- TSA drone contest has a problem research component to connect drones to careers



Matt Koosmann



How do you use drones as an instructional platform?

- Used in multiple formats club, stand-alone course, integrated into other courses
- Exploratory course to teach and build engineering mindset
- Provides students ownership over learning a skill and knowledge





How does the RubiQ drone compare with other drone products?





Kellie Dean



How does the RubiQ drone compare with other drone products?

- My experience is with the *Discover Drones* program and the RubiQ drone
- Feedback from trained teachers



Justin Touchstone



How does the RubiQ drone compare with other drone products?

- The idea of an easy to build drone for learning makes it a great fit for the classroom
- The RubiQ meets the educational needs with a drone that is easy to build, without spending hours trying to figure out the right components
- It is not just a ready to fly drone either offering opportunities for students to learn
- Students learn the components and construction of drones



Matt Koosmann



How does the RubiQ drone compare with other drone products?

- Modular kit with high quality components that can be swapped out easily when needed
- Open format of drone allows students to see the elements that make up the drone
- Easily approachable for the novice teacher and student



Funding





Kellie Dean



- Corporate and family foundations
- K-12 STEM Grant stemgrant.com
- HSU Foundation https://hsu-foundation.org/
- AFA Educator Grants
- IGEM grant -<u>http://commerce.idaho.gov/idaho-business/idaho-global-entrepreneurial-mission-igem/</u>
- Idaho STEM Action Center



Justin Touchstone



- With Career and Technical Education we have access to dollars that others do not. State added cost, and Federal Perkins funding
- There are also grant opportunities for purchasing drones for the classroom



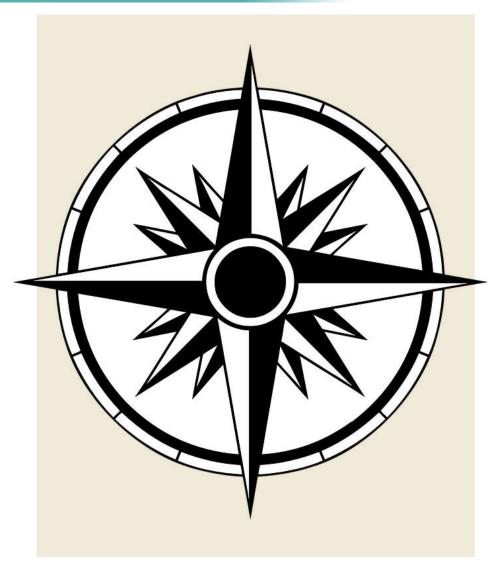
Matt Koosmann



- CTE Advisory members contributed to building our program through donations
- PTSA is a great resource!



Getting Started





Kellie Dean



- Training Program facilitator
- Program goals
- District/school approval
- Funding
- Marketing
- Recruiting
- Launch Program participants



Justin Touchstone



- Teachers should attend training and professional development (obtain a part 107)
- Teachers need to be comfortable with drones before they will fully embrace the technology
- PCS has been a fantastic partner with Idaho TSA in development, training and ongoing technical support for our drone contest



Matt Koosmann



- Build and fly well before the students
- Call and talk to other teachers and PCS Edventures!
- Practice, practice, practice
- Fly indoors
- Create safety protocols battery, check in and out, checklists, travel to and from classroom, etc
- Communicate with building staff
 - Master Schedule Year and time of day
 - Colleagues PE for indoor and outdoor space





Type your question in questions panel and indicate who the question is for.



Panelists



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