

BITS & BYTES

Pueblo
Community College

THE PCC STEM CENTER NEWSLETTER
November 2022

Fountain International Magnet School Visits PCC!

PCC was extremely honored to host 75 students and 5 faculty from Fountain International Magnet School on Oct. 26. K-12 STEM Outreach Coordinator Parker Banas organized the event and worked with faculty from PCC including Andrew Nunn, Gabe Lucero, Joey Mathews,



FIMS students learn about force and motion from Gabe Lucero, Upward Bound Director.



Andrew Nunn, Coordinator of PCC's E-sports program, teaches students about the inner workings of the E-sports lab.

Lindsey Jaquez, Toni Skilling, and Vernon James to help host the event.

Also assisting with the event were Debra Wilcox, CEO of 3D Printing Store in Englewood, CO, and Jimmie Romero, the STEM Center's academic and career expert.



Students from FIMS learning about CIS technology in PCC's Esports lab. All FIMS photos by Parker D. Banas.

Students from FIMS got a taste of many of the facets of STEM including 3D printing, force and motion, video game technology, and animal/biological classifications. Prior to the event, the students were happily greeted in the Student Center by the PCC Panther while they ate their lunch outside Pueblo Joe's.



Debra Wilcox, CEO of the 3D Printing Store, teaches students how the layering system of 3D printing works.

If your school is interested in visiting PCC, please contact Parker Banas at 719.549.3129 or Parker.banas@pueblocc.edu.

Spooky Season in the PCC STEM Center



Final entries in the STEM Center pumpkin carving contest.

On Oct. 27, the PCC STEM Center hosted its first pumpkin carving contest. Fifteen PCC students entered the contest, filling all of the available entry slots.

The contest had three categories including STEM (Science, Technology, Engineering, and Math), spooky, and creative/general.

With so many amazing and imaginative entries, the judges' decision was very difficult. In the end, the winners were Sara Balquin (creative/general), John Trujillo (spooky), and Arianna Love (STEM). With growing support, the contest will be bigger and better in 2023 and we look forward to seeing you all there.



Dr. Young Kim, PCC's Dean of Arts & Sciences, and PCC students participate in the STEM Center's first pumpkin carving contest. Pumpkin contest photos by Joey Mathews.

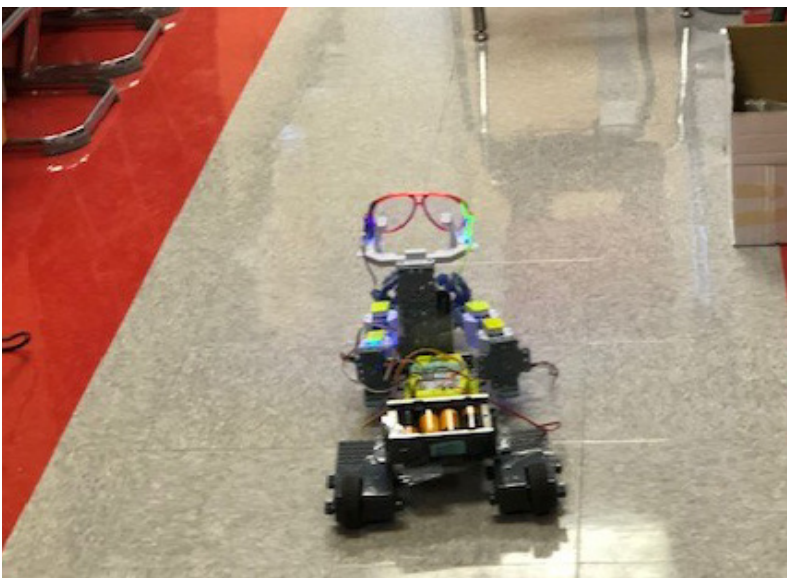
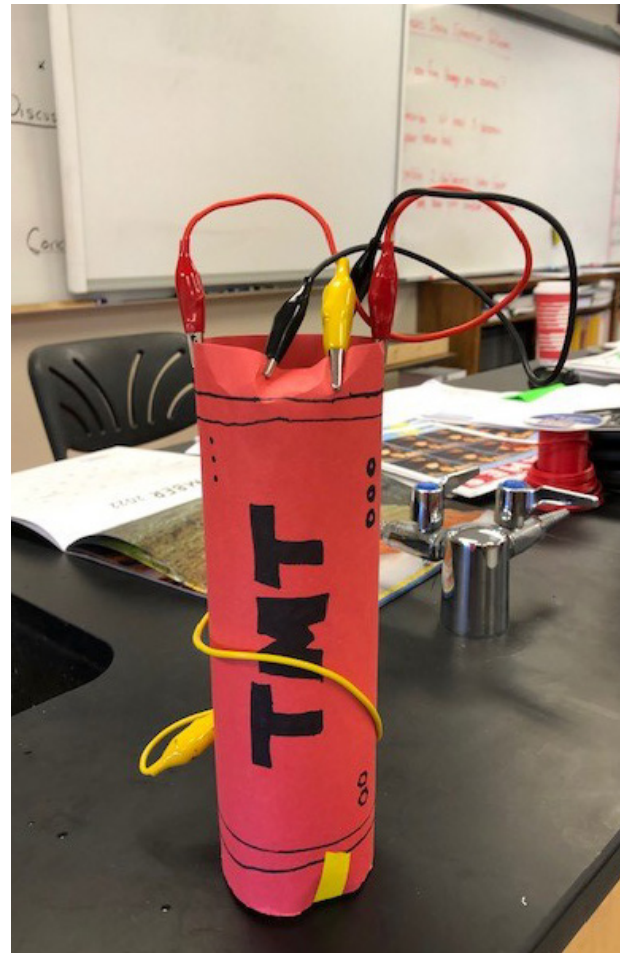


Work-study students in the STEM Center were also tasked with creating an original 3D printed pumpkin. From the five entries above, entry #4, made by Sara Balquin, won. Congrats to Sara!

STEM Students Save the Day

Pueblo Community College Southwest
STEM outreach – Chris LaRose

Robot hazardous device extraction
Dolores High School, October 2022





The Dolores High School forensics class built a robot that could extract a hazardous device from a crime scene. Working in teams, student's designed and built a robot capable of lifting a one-pound device. The students problem-solved the mechanical engineering of the robot and determined how to steer and control the bot.

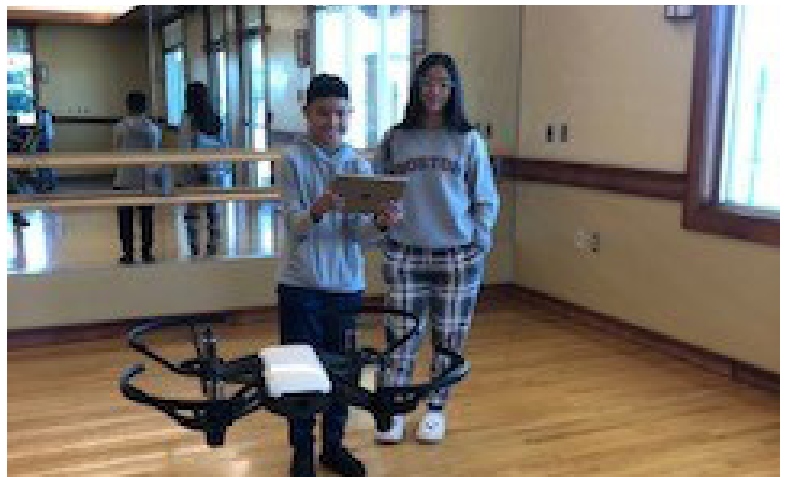
It was inspiring and impressive how these students solved the problem in six class periods. Their safe extraction of a hazardous device enabled the forensics team to go in and analyze the crime scene. Well done, STEM engineers!



Born to Fly - Drone Flight School 101

**STEM Fridays
Cortez Middle School,
October 2022**

Students from Cortez Middle School are participating in STEM Fridays. The program is a 7-week course centered around drones and robotic engineering.



Students started learning how to fly Tello drones during the first sessions. The students have been busy building an obstacle course and learning how to program the drone to fly through the course safely.



There have been some crashes and growing pains, but each student's drone flight skills are growing. All students will get their Recreation Drone Flight Certificate upon completion. Hats off to these STEM pilots for exploring and learning how to fly!



What is available as part of the STEM EDGE program?

- Advising
- Career development/ Work-based learning
- Internship
- Transfer
- Tutors
- Undergrad research
- Workshops

