

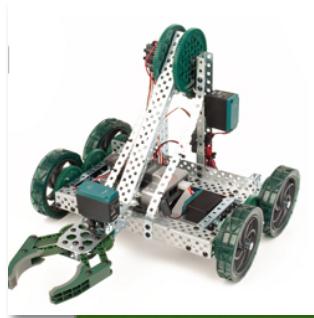
US FIRST PROGRAMS

US First is designed to inspire young people to be science and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

Gracious Professionalism is part of the ethos of FIRST. It's a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

With Gracious Professionalism, fierce competition and mutual gain are not separate notions. Gracious professionals learn and compete like crazy, but treat one another with respect and kindness in the process. They avoid treating anyone like losers. No chest thumping tough talk, but no sticky-sweet platitudes either.

Knowledge, competition, and empathy are comfortably blended.



In the long run, Gracious Professionalism is part of pursuing a meaningful life. One can add to society and enjoy the satisfaction of knowing one has acted with integrity and sensitivity.

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FIRST's Coopertition is displaying unqualified kindness and respect in the face of fierce competition. Coopertition is founded on the concept and a philosophy that teams can and should help and cooperate with each other even as they compete.

Coopertition involves learning from teammates. It is teaching teammates. It is learning from Mentors. And it is managing and being managed. Coopertition means competing always, but assisting and enabling others when you can.

VEX ROBOTICS CAMP

AUGUST 19 - 23



Tekmeca

a non profit technology developer

PROGRAM CURRICULUM

DAY 1

10:00 – 12:00 – Orientation and introduction to Robotics. Brainstorm an obstacle course for the end of the camp. Get information about the students' previous class at Stanford. Begin by building the basic VEX clawbot

12:00 – 1:00 – lunch break, brainstorm more on obstacle course

1:00 – 3:00 – Complete VEX clawbot. Learning programming for navigating through a basic maze. Finalize obstacle course challenge design.

DAY 2

10:00 – 12:00 – Learn about gear ratios, torque, and other physics. Understand the differences between wheel types and sizes. Learn about different drive bases (slide drive, four wheel drive, and more. Begin building

an improved drive base for the obstacle course challenge.

12:00 – 1:00 – lunch break, relax

1:00 – 3:00 – Complete improved drive base. Begin working on ideas for attachment to complete obstacle course challenge.

DAY 3

10:00 – 12:00 – Learn about servos and high strength motors. Finish brainstorming and begin building attachment

12:00 – 1:00 – lunch break, relax

1:00 – 3:00 – Learn about remote control and how to program it to fit the team robot.

DAY 4

10:00 – 12:00 – Complete team robot. Learn to program the remote control to fit the completed robot.

12:00 – 1:00 – lunch break

1:00 – 3:00 – Obstacle course challenge!



PARTICIPANT INFORMATION

Name:

Age/Grade Level:

Guardian Name:

Guardian Contact:

Guardian Signature: