NASA IV&V Education Resource Center
2020 Summer Robotics Camps
sponsored by the WV Space Grant Consortium

Teachers, Coaches, Parents:
For our 5th year, the NASA ERC is again offering week-long Robotics Summer Camps, Competitive Robotics Boot Camps, and now an all-virtual state-wide cyber-robotics camp!

Hands-On Robotics Camps

Description: Our camps are 4/5-days, hands-on programs that focus on fundamental building and programming skills, games, and fun challenges using a variety of robotics platforms. Each camp will provide information on age appropriate competitions, and how to get involved and stay engaged in robotics! Camps are staffed by NASA's college interns sponsored by the IV&V Facility and the WV Space Grant Consortium, and hosted at partner sites across the state.

Schedule: We are offering ½ day camp for students ages 6-8 years old, Tue.-Fri, 9am-12pm. Our full-day camp is for students 9-14 years old, Mon.-Fri., 9am-4pm. For both camps, you may drop off and pick up your camper ½ hour before or after the camp times.

- Ages 6-8, half-day 9am-12pm, LEGO® Coding Express and WeDo 2.0 Robotics.
- Ages 9-14, 9am-4pm LEGO® EV3, VEX IQ, and Parrot Mambo Drone.

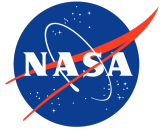| Week of	Host Site	City
July 6	BridgeValley CTC (Virtual Camp Only)	Charleston
July 13	Mountaineer Middle School	Morgantown
July 20	James Rumsey Technical Institute	Martinsburg
July 27	Fairmont State University	Fairmont
Aug. 3	Robert C. Byrd Institute	Huntington

Lunch: For F2F, campers must bring their own bag lunch, drinks, etc. We will provide a morning and afternoon snack.

Cost: We offer our F2F camps at a break-even or a loss and to ensure we are accessible to all students. We are asking every family that can afford it for a suggested donation of $50/student for the younger student ½ day camp, and $100/student for the older student, full-day camp. Both camps include snacks, use of robots, drones, tablets, and all materials. Checks should be made out to "Fairmont State University" and will be collected on your first day of camp at the registration desk.
Note: If you can afford to donate more, your dollars will go to support another camper who is less fortunate.

Register Here: https://forms.gle/K6atp2QRS1SS7F5f7

Questions: contact Ryan.E.Utzman@nasa.gov or Todd.Ensign@FairmontState.edu

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COVID-19: To ensure the safety of the students and staff, we will comply with the Governor's West Virginia Strong - The Comeback plan, WV DHHR guidelines, County health agencies, and school/host policies.

1. IF the guidelines allow face-to-face (F2F), we intend to run the camps but limit enrollment, allow only one student/robot, and enforce strict hand-washing and sanitizing practices.
2. IF the guidelines don't allow for F2F, then we will offer a limited "virtual camp" where we loan sterilized robot kits to students, who work through the activities at home with adult supervision and guidance from our staff delivered via Zoom, WebEx, etc.

FULL VIRTUAL! CoderZ from Intellitek

Description: Thanks to a generous donation from Amazon Future Engineer, CoderZ is a free option that only requires an Internet connection and a computer with the Chrome Browser to use the highly-regarded Coder-Z platform to learn to code, and to compete with a virtual robot. This program is for students in 5th grade and up. This is an amazing opportunity for so many kids to learn to code, compete, and participate in robotics! Students are trained through a 3-week program (June or July sessions) to code and compete a virtual robot. High School Students get the chance to learn Python as well. *NOTE: Students CAN participate in both a virtual and a F2F camp!*

Schedule: There are TWO SESSIONS! We are offering the early session starting June 8th and lasting 3 weeks until June 26th. The later session begins July 13th and runs until July 31st.

Register here: https://forms.gle/K6atp2QRS1SS7F5f7

Questions: contact Todd.Ensign@FairmontState.edu

Competitive Robotics Boot Camps

Description: These 1-2 day camps cover how to get started running a robotics team and are designed for 1-2 coaches and 2-4 students (the goal is to serve up to 5 people/team). These camps are hosted by our partners, and teams must provide their own transportation, meals, and lodging (if needed). While robots can be loaned to a team for the training, we recommend you bring your own. You can schedule one of these Boot Camps by contacting the trainer listed below.

- FIRST® LEGO® League Jr. (1/2 day) Bobbi@EducationAlliance.org
- FIRST® LEGO® League (1-day) Ryan.E.Utzman@NASA.gov
- FIRST® Tech Challenge (2-day) Ryan.E.Utzman@NASA.gov
- REC Foundation Aerial Drone: Todd.Ensign@FairmontState.edu
- VEX IQ (1-day) Christopher.E.Lomasney@NASA.gov
- VEX Robotics Competition (2-day) Christopher.E.Lomasney@NASA.gov
- World Robot Olympiad (1-day) Bobbi@EducationAlliance.org