



Robotics For Youth

Contact: Venketesh Subramony
Phone: 202 770 7277
Email: roboticsforyouth@gmail.com

14636 Stone Crossing Court
Centreville, VA 20120

Robotics for Youth to exhibit at USA Science and Engineering Festival EXPO April 15-17 2016.

Robotics for Youth, a youth-run nonprofit organization based in Northern Virginia, is hosting an exhibition as part of the USA Science and Engineering Festival EXPO, from April 15-17 of 2016, at Walter E Convention Center in Washington DC.

Robotics for Youth's mission is to promote awareness in robotics and engineering and to help students excite in areas of science and technology. They also mentor other robotics clubs and teams. They are a group of young engineers who have many years of experience in FIRST LEGO League, FIRST Tech Challenge, FIRST Robotics Competition, and are also STEM ambassadors for robotics engineering and are reaching out to different schools to increase awareness in Robotics and its applications in the real world. They are also reaching out to experts and leading scientists in robotics to give great speeches to the community. They are in the process of developing one on ones and web lessons directed to kids about robot design and programming. They hope to increase Stem-literacy in the community.

They firmly believe that hands-on learning is the key to an education in Science, Technology, Engineering, and Math. They will be providing onsite demonstrations with various robotic platforms that are structured towards helping kids develop an interest in robotics. They will be demonstrating top educational robots such as:

- **MBot** – This is an educational platform for robotics designed to teach younger kids about machine logic and it can be coded in two main ways. Scratch, developed by MIT, can be used as an interface with the mBot and the robot can also be coded in C language.
- **EV3** – The EV3 is a third-generation product of the Mindstorms series and it uses a small library of drag and drop code options and it allows the user a lot of freedom. This technology is great when used in a team and competition system and it is a very effective tool for hobbyists.
- **OzoBot** –The OzoBot is a tiny robot, measuring 1 inch in height and diameter, which comes with a photo sensor array for recognition of patterns, lights, colors, and automatic detection functionality for physical and digital playing surfaces. You can program it using drawn lines in color and Robotics for Youth has many fun activities planned to get the younger kids involved
- **Little Bits** – This is a platform of easy-to-use electronic building blocks that empower you to invent anything, from your own remote controlled car, to a smart home device. The Bits snap together with magnets, no soldering, no wiring, and no programming needed.