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Robotics Summer Sessions

More info:

- www.robo-lions.org
- www.pie-3.org
- www.stemaction.org
- www.firstinspires.org

Contact us:

Signup.PIE3@gmail.com



Brought to you by:

- ◇ PIE³
- ◇ Freedom Area Recreation Council (FARC)
- ◇ The Robo-Lions *FIRST* Robotics Competition (FRC) Team 2199 and
- ◇ Affiliated *FIRST* Tech Challenge Teams
 - ◇ FTC Team 4991
 - ◇ FTC Team 8221
 - ◇ FTC Teams from South Carroll High School (RoboCavs Teams 6284, 8479 and 10001)

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Robotics Summer Sessions

Sponsored by PIE3, the Robo-Lions, affiliated FTC teams, and FARC

PIE3 is a non-profit affiliate of Freedom Area Recreation Council. The Robo-Lions are a *FIRST* Robotics Competition Team (FRC Team 2199) open to all high school students. Affiliated FTC Teams include the RoboCavs, the Gear Freaks, and Cubix³.

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For all camps - Robots, software, laptops and building materials provided. The Robo-Lions will bring their big robot to all camps, and share their *FIRST* Robotics Competition experience. *FIRST* Tech Challenge and *FIRST* Lego League teams co-host the camps and also bring robot demonstrations.

- Ages: Youth (ages 6-12, see individual sessions for age limits)
- Times: Morning sessions 9-12, Afternoon 1-4. No before/after care available.
- Cost: \$170 per session. Includes t-shirt, daily snack and some craft or lesson materials.
- Location: Freedom Optimist Hall, 6315 Sykesville Road, Eldersburg 21784



LEGO Fun Session (ages 9-12)

Returning with new activities and the same great counselors, Lego Fun Session includes an introduction to Lego NXT programming for Mindstorms and SuGo games, a friendly and fun competition and all sorts of activities like paper airplanes, making buttons, and engineering challenges. On the final day, teams showcase their robots and skills. Depending on the level of experience and interest of the campers, some modifications may be made.

- June 19-23, 9am - 12 pm
- June 26-30, 9am - 12 pm
- July 10-14, 9 am- 12 pm

Girls in Engineering (ages 8-12)

This camp will include engineering challenges like egg drop and bridge building, guest speakers, a field trip and, of course, Lego robots and SuGo. There will be many more creative crafts and teambuilding activities as well. **GIRLS ONLY!!** Girls interested in these activities and not able to make this session are encouraged to enroll in any Lego Fun Camp or Advanced Lego Programming.

- June 19-23, 1 pm – 4 pm
- Aug 14-18, 1 pm—4 pm

WeDo Fun Session (ages 7-11)

Build and Program robotic LEGO models with the WeDo system, featuring working motors and sensors. WeDo Robot Engineering will dive into an exciting hands on experience learning about robotics design, sensing, and programming. Using drag and drop software, you will gain experience with programming logic to make your creations move and react to the environment. You will think like an engineer as you build a crane, car, robot alligator, or sensing conveyor belt. What can't you do with imagination, hard work, and design.

- Aug 14-18, 9 am – 12 pm

Advanced Lego Programming (ages 9-12, experience required)

This week-long exploration of advanced concepts in programming Mindstorm robots will be based on the EV3 programming language. Instructors include the incomparable Mr. Lee (from SCHS) and outstanding *FIRST* team members. The session will stress the value of teamwork by grouping campers into teams of three or four members and teaching them to work as an FLL team does. Teams will work to build robots to accomplish multiple missions from past FLL challenges. The last hour of the camp will host a competition for friends and parents to watch. Some knowledge of NXT or EV3 programming language is required, or permission of the instructor.

- June 26-30, 1-4 pm
- July 10-14, 1-4 pm

All sessions subject to change based on enrollment.