

Oxford Robotics FLL Summer Camp 2013 Fundamentals of NXT Robotics & Programming



WHO?

This camp is for students new to FLL and the NXT Mindstorms system. You will get ground up instruction to mechanical design and programming with the Mindstorm NXT 2.0 system. You will learn the fundamentals of programming using Lego Mindstorms NXT 2.0 and work your way up to basic programming logic controls and sensors including the light and color sensor, ultrasonic sensor, touch and sound. Master your robot and blow away the competition!

WHEN?

August 5th through 8th 9AM to 12PM

WHERE?

Oxford's Hopewell Middle School

WHAT?

- Fundamentals of Robot Mechanical Design and Function
- Fundamentals of sensors (Light/Color, UltraSonic, Sound & Touch)
- Design and Building implements (attachments)
- Programming Fundamentals used in controlling movement of our robot
- Program logic control (loops, time control, logic switch)
- Using tools to collect data to speed program design and debug problems
- Basic programming with Sensors (Line Followers & Wall Followers)

HOW?

We will have experienced instructors and mentors to provide instruction as well as lots of hands on lab exercises. You will work in small teams, 2 students per station, ensuring lots of hands on experience with all lesson material.

RESULT

You will leave with a thumb drive loaded with sample programs, your own programs developed in the lab exercises and workbooks covering the course materials.

DO IT NOW!

Learn more and register now at www.oxfordrobotics.org/summercamp.

Seats are limited (20) and will be filled on a first come first serve basis.

RATES: Registered Oxford FLL Team Members \$30; others \$60 per student.