

SUMMER DAY CAMPS

IGNITING IMAGINATIONS

Dear Camp Families,

We welcome your campers to the iSPACE Summer Camp Program NXT Challenge "Smart Cars"! Your children will have fun learning about robots by completing challenges that integrate LEGO element building and NXT-G programming.

This week, the NXT Challenge for your children will be to create LEGO MINDSTORMS versions of the smart car - those experimental, driverless automobiles that are now legal to operate in Nevada, California, Michigan, and Florida. A smart car drives itself based on a continual flow of information. Your students will learn how to program the robot car to make driving decisions based on sensor input. They will use the light sensor for navigation and the ultrasonic sensor to avoid collisions.

The programming language they will use is NXT-G, which is based on LabVIEW. LabVIEW is used widely in industry by engineers and scientist for data acquisition and control systems. NXT-G is also an accepted language in FIRST LEGO League robotics competitions.

Throughout the week, the campers will work rarely alone, sometimes in larger teams, but mostly with a partner. We will stress equal participation, communication, cooperation, and teamwork.

On Friday, the family members are welcome to attend our open house from 1:45 pm - 2:00pm. We will play a slideshow with photos of the campers taken during the week and the campers will be proud to show off their creations and demonstrate the robots for you.

Thank you for enrolling your child in the NXT Challenge "Smart Cars" camp. We know they will have a BLAST!

Commander Leslie

(Note: Due to the expense of the LEGO MINDSTORM NXT kits, the children do not take home any robotic materials. The robot kits are available in stores and online for \$350-\$600.)

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