

Jr High Summer Institute 2010

Week 2
July 12 - July 16, 2010

Have fun create your own robot and making it follow your commands. Robots need to know what to do and have the mechanical means of doing it, therefore in this class you will learn how to build robots and how to create programs to tell them what to do and how to react to their surroundings. The robotic platforms that will be used are the Lego RCX and Lego NXT; the programming concepts will be introduced using the Lego programming language Robolab; more advanced programming and simulation environments will be presented using Microsoft Robotics Studio and National Instruments LabVIEW.

Robotics: Week 2 July 12th, 2010	Monday	Tuesday	Wednesday	Thursday	Friday	Instructor
8:00 - 9:00 a.m drop off	drop off	drop off	drop off	drop off	drop off	Camp Counselor
9:00 - 10:45 (1 hour 45 min) Block A	Knowing Lego Robots (Mindstorms RCX)	Advanced Robot Programming (Mindstorms RCX)	Knowing Lego Robots (Mindstorms NXT)	Advanced Robot Programming (Mindstorms NXT)	The World of Robots	Sam Bolanos & Lee Hilliard
10:45-11:05 (20 min) break	20 min Break	20 min Break	20 min Break	20 min Break	20 min Break	Camp Counselor
11:05 - 12:50 (1 hr 45 min) Block B	Building Lego Robots	Advanced Robot Programming (Mindstorms RCX)	Building Lego Robots	Building Lego Robots	Robots Testing	Sam Bolanos & Lee Hilliard
12:50 - 1:40 (50 min lunch)	50 min Lunch	50 min Lunch	50 min Lunch	50 min Lunch	50 min Lunch	Camp Counselor
1:40 - 3:25 (1 hr 45 min) Block C	Basic Robot Programming (Mindstorms RCX)	Robots Testing	Basic Robot Programming (Mindstorms NXT)	More Programming and Simulation Environments	Robots Testing	Sam Bolanos & Lee Hilliard
3:30 Pick-UP	Pick Up	Pick Up	Pick Up	Pick-Up	Pick Up	Camp Counselor