

Camp Skinny:

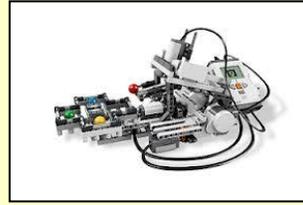
Working in small design teams, students in this robotics camp will use the Lego Mindstorms NXT 2.0 kit to create cool robots that compete in real world challenges like racing events, robot wars, obstacle courses, target practice, and much more.

Your son or daughter will get the chance to be both an engineer and a programmer as they build, program, and go!



Mindstorms NXT 2.0 by Lego

Arts Centre
2425 St. John's Street
Port Moody, V3H 2B2



MediaFineArts.com

presents: **Young Engineers Camp**

By Don Blake



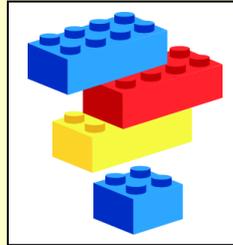
Young Engineer's Camp

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Lego Sets Included:

Each Participant Receives a set of Lego:

Participants don't only create their own Lego robots, but they also build and take home the Lego set they use in some of the challenges!



What's Covered:

The camp covers the basic building blocks of any good program design challenge. We cover the following basic units in the camp:

1. Robotic design and engineering. Build a better robot! What is your robot designed to do? Build your bot to do that chore. Test it. And then build it better.
2. Robot interactivity: using the touch sensor, light sensor, and ultrasonic sensor to get your robot to discover and adapt to its environment. Build a shooter bot that tracks a moving object and tries to seek and destroy.
3. Getting Loopy: make your robot repeat a set of instructions until the job is done. Have a simple set of instructions you need to repeat over and over? Create a loop to continuously repeat that task and save yourself tons of work.
4. Problem Solving: putting it all together to create a robot that can not only attempt a task but adapt and evolve according to changing conditions. Create a sumo bot that seeks out the enemy and pushes it out of the battle ring.

Time, Cost & Location:

The summer Young Engineers camps runs July 4-8 and July 18-22, 2016.

The cost of the Young Engineers Camp is \$250.

All camps are held at the Arts Centre in Port Moody.

About the Instructor:

Don Blake has been teaching programming and Information Technology in the Coquitlam District for 15 years. Many of Don's students have gone on to successful careers in both Computing Science and Game Design.

To Register:

To register, follow the link on our site to the online form. Payment may be made through PayPal or via cheque.



Sample Robots:

Throughout the week, students will get the chance to build various robots like line riders, battle bots, and maze runners.



Line Riders

Catapults



Explorers



MediaFineArts Camps Director:

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