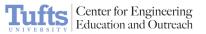
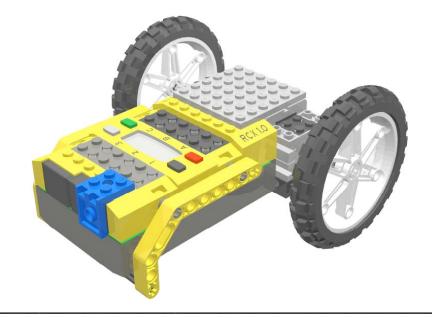
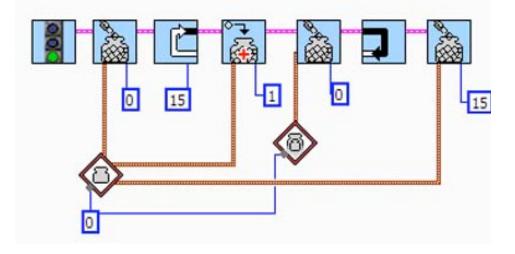
LegoEngineering.com	Zombie Attack - RCX
	Zombie Attack - RCX
Suggested Time	90 minutes
Challenge	In this activity, a group of students each build an RCX robot. Each RCX is assigned a number. It will then have to tag the other RCXs with the number by using mail. 5 tags and the RCX takes on that RCX's number. The winner is the RCX that has given its number to the most other RCXs at the end of the time limit.
Age	15-18
Topics	Programming & Communication
Subjects	Technology
Programming Themes	Containers, Containers' Containers, Events, Motor Forward, Mail, Set Display, Jumps/Lands, Loops
Materials	Multiple RCX Cars



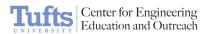
Building Instructions 1. Build an RCX car/creature, keeping in mind that you need to be able to send out your number while avoiding the messages from others. Your are NOT allowed to cover your IR receiver.



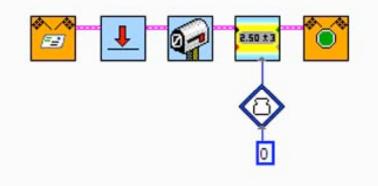
1. Using ROBOLAB Investigator 5, first initialize your RCX, set all the variable to zero, and set up your number.



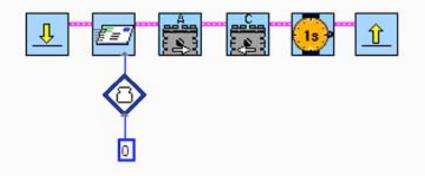
Programming Instructions



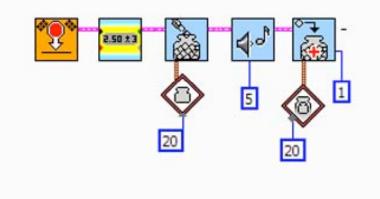
2. Set up mail. Begin monitoring for mail and set your display to show your number.



3. Send out your number and add in any evasive moves to tag and not get tagged. Place your evasive maneuver inside a jump so that it will run continuously.



4. Increment your hit count.



5. Too many hits changes your number. 4 20 Echo Locator **Related** Activities Birthday Decoder The RCX **Building** and Programming References How can you tell the difference between an even and an odd ٠ number? Knowledge Base Can you create a program that can send large values in the mail? Can you create a car/creature that will play laser tag with other ٠ cars/creatures? • Can I reprogram someone else's RCX? What is an event? • ٠ Is it possible to load a program on 2 different RCXs from the same VI? Using the timer and RCX display • Why do I need to zero sensors/containers? ٠ • My container is not working. I tried to use a loop but nothing happened. ٠ What is a container? What is the container's container?



Classroom Management 1. Build an RCX car/creature, keeping in mind that you need to be able to send out your number while avoiding the messages from others. You are NOT allowed to cover your IR receiver. In this challenge, the building is as important as (if not more important than) the programming.

2. Each competitor must have some identical elements in his/her program to ensure fair competition. The programming for this challenge is fairly difficult.