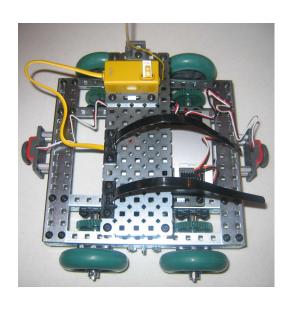
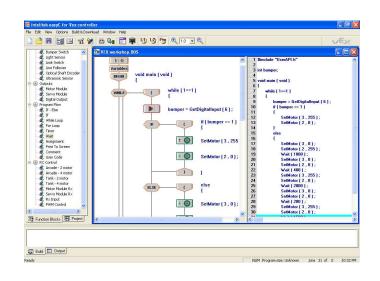
VEX Robotics Workshop





Supported By:



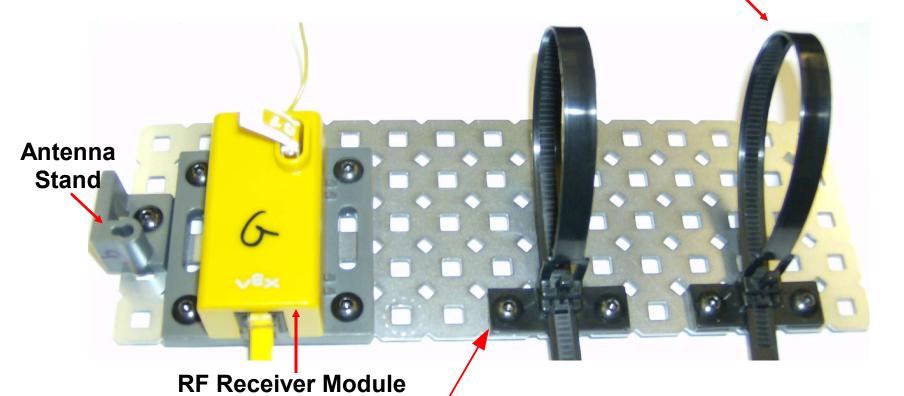






Battery Strap

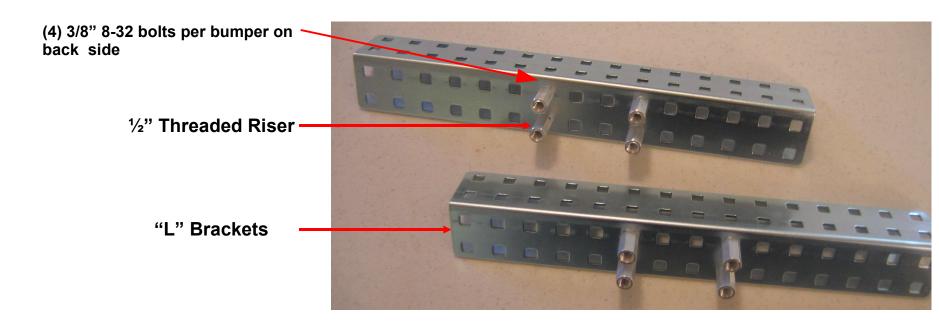
(included in rechargeable battery set)

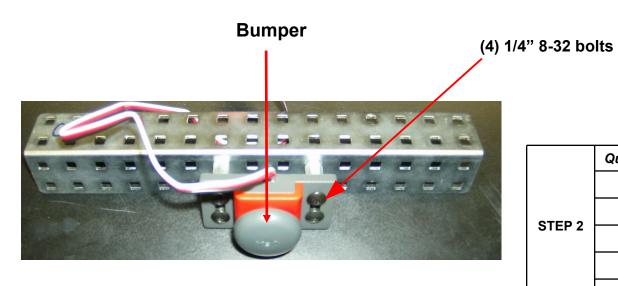


3/8" 8-32 bolts and Keps nuts

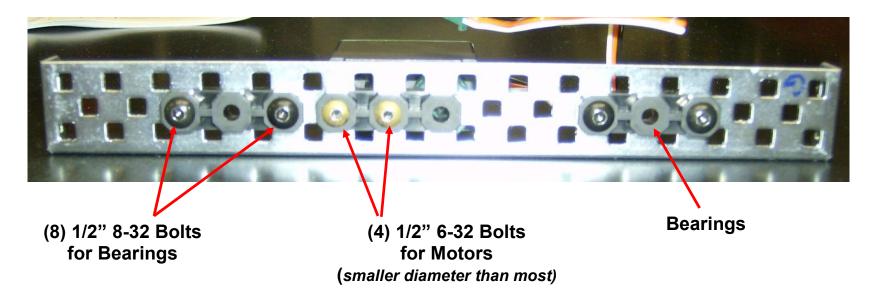
	Quantity	Description
	1	5 x 15 Plate
	2	Black Battery Straps
STEP 1	1	Yellow RF Receiver Module
	1	Grey Antenna Stand
	9	3/8" 8-32 Bolts
	9	Keps Nuts

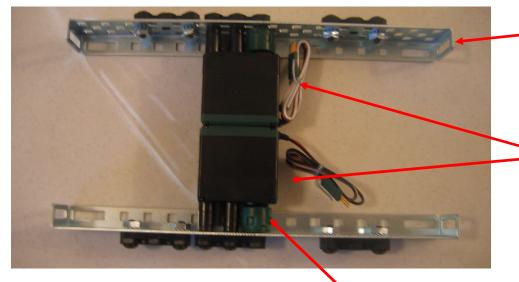
Building 2 Bumpers





	Quantity	Description	
	8	3/8" 8-32 Bolts	
OTED 0	8	1/4" 8-32 Bolts	
STEP 2	2	Bumpers	
	2	15 x 2 "L" Brackets	
	8	1/2" Threaded Riser	





Make sure clutch is present

Chassis Rail

Motors NOT Servos

	Quantity	Description
	2	Brackets
	2	Motors
STEP 3	6	Bearings
	4	1/2" 6-32 Bolts
	8	1/2" 8-32 Bolts
	8	Keps Nuts

THE DESTRUCTION OF THE PARTY OF

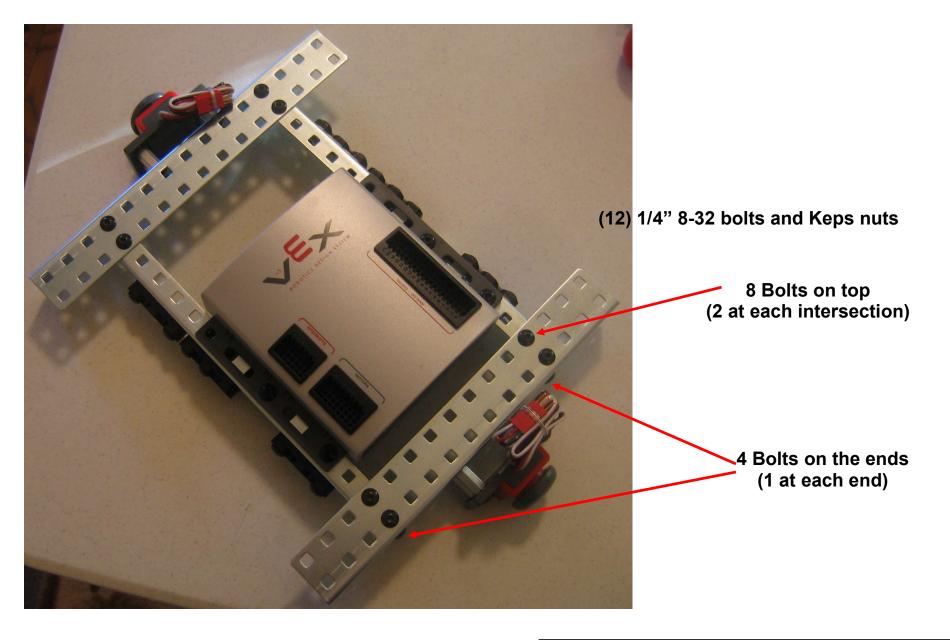
Bottom

Тор

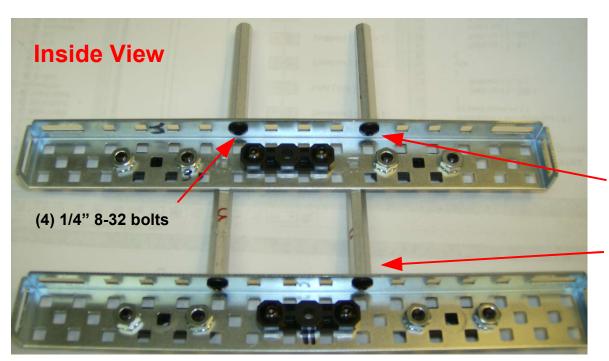


(4) 1/2" 8-32 bolts and nuts

	Quantity	Description
STED 4	1	Microcontroller Module
STEP 4	4	1/2" 8-32 Bolts
	4	Keps Nuts



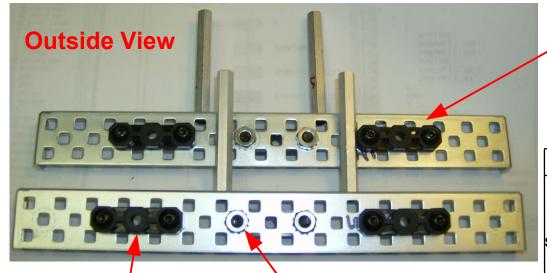
	Quantity	Description	
STEP 5	12	1/4" 8-32 Bolts	
	12	Keps Nuts	



Notice that the posts are NOT put in the same place for both sides. They are mirror images of each other.

This post is put in on the 3rd hole from the right

This post is put in on the 4th hole from the right

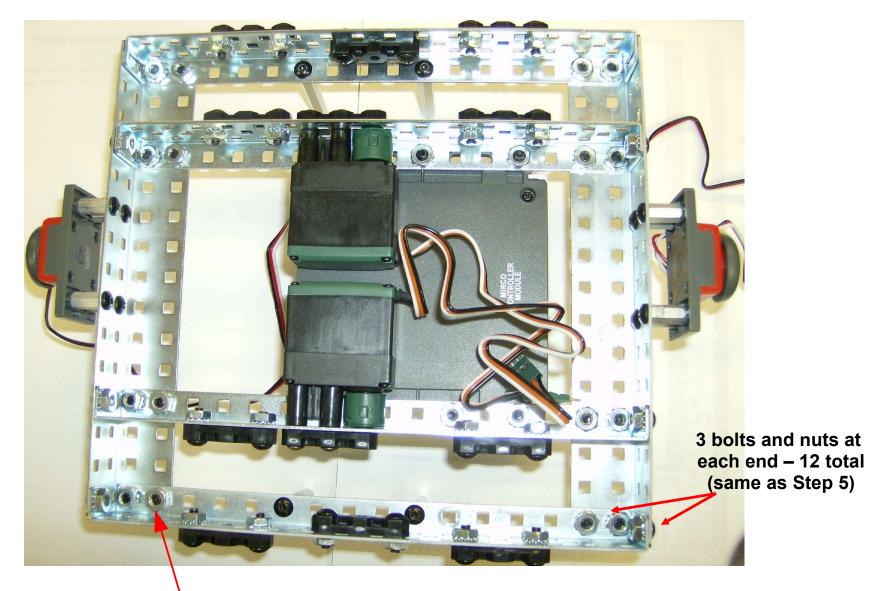


(12) 1/2" 8-32 bolts and nuts

(6) Bearings

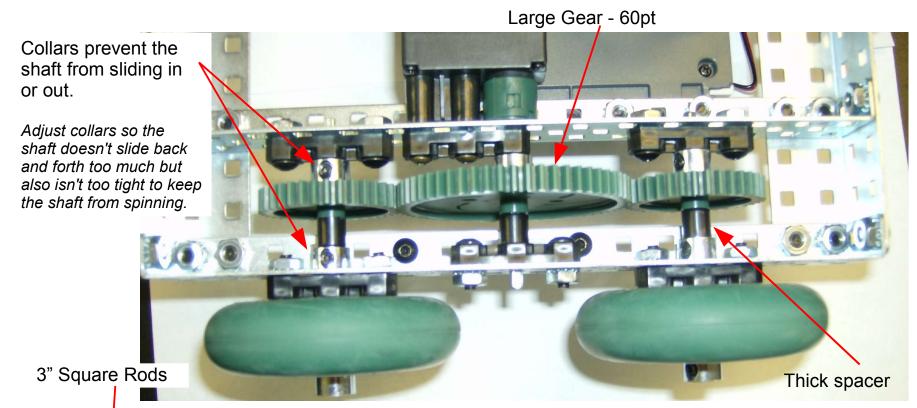
Notice that the bearings are put exactly the same for both sides.

	Quantity	Description	
	2	Chassis Rails	
	4	2" Standoffs	
STEP 6	4	1/4" 8-32 Bolts	
	6	Bearings	
	12	½" 8-32 Bolts	
	12	Keps Nuts	



(12) 1/4" 8-32 bolts and nuts

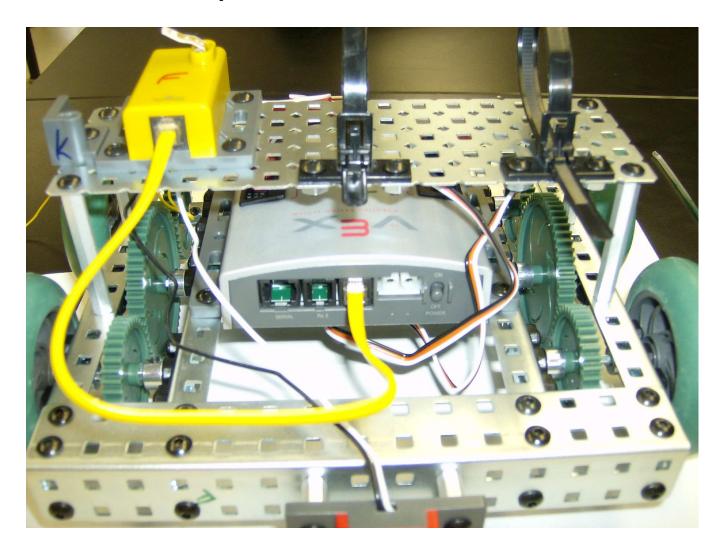
	Quantity	Description
STEP 7	12	1/4" 8-32 Bolts
	12	Keps Nuts





	Quantity	Description
	4	3" Square Rods
STEP 8	2	2" Square Rods
	14	Set-screw Collars
	4	Wheels
4 Medium Gears – 36 pt		Medium Gears – 36 pt
	2	Large Gears – 60 pt
	6	Thick spacers

Install Top Plate – 1 screw at each corner



STEP 9	Quantity	Description	
	4	1/4" 8-32 Bolts	

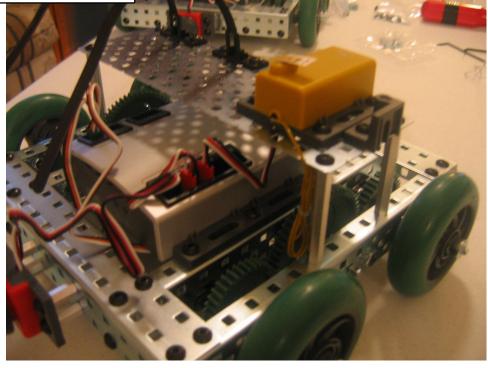
Plug wires into the microcontroller – be CAREFUL, they only go in one way and be careful not to bend the little pins.

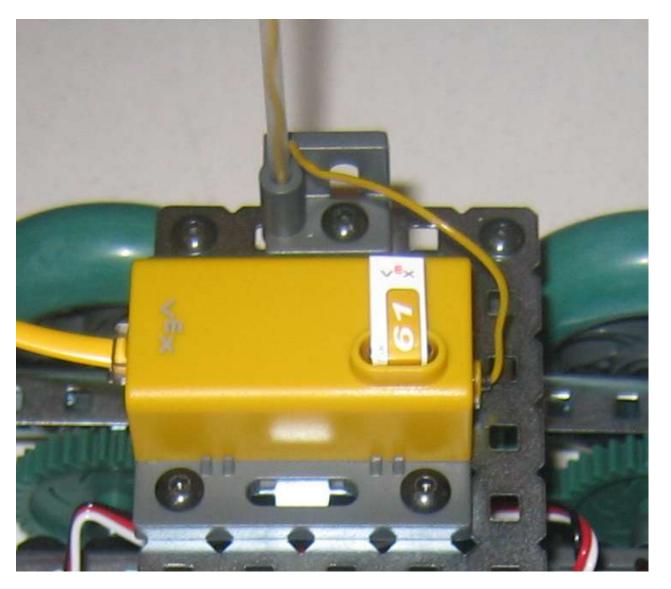
Cable from	Plugs into
Right Drive Motor	Motor Port 3
Left Drive Motor	Motor Port 2
Front Bumper	Analog/Digital Port 6
Back Bumper	Analog/Digital Port 10

Port is another word for socket.

Go into motor ports

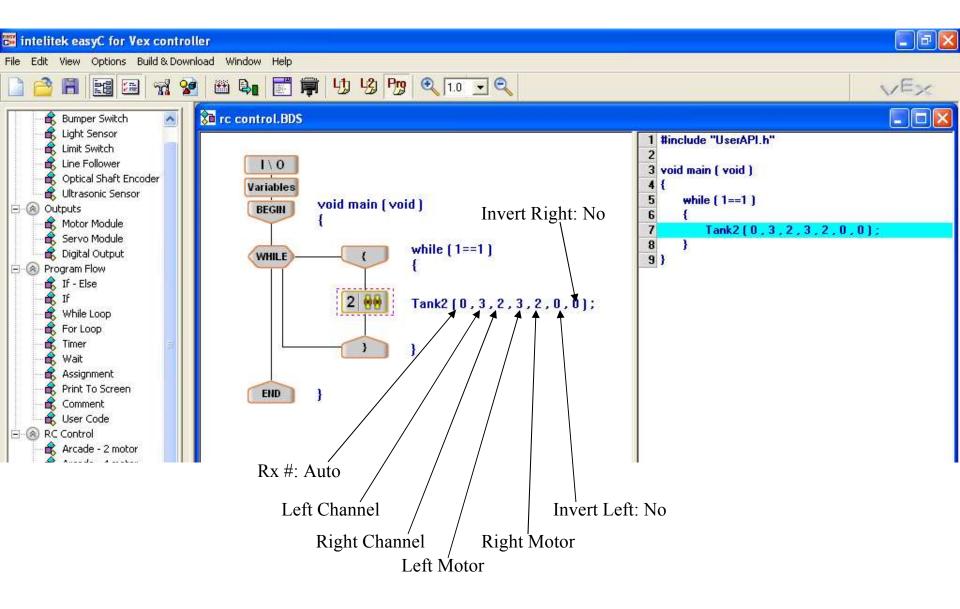
Go into analog/digital ports



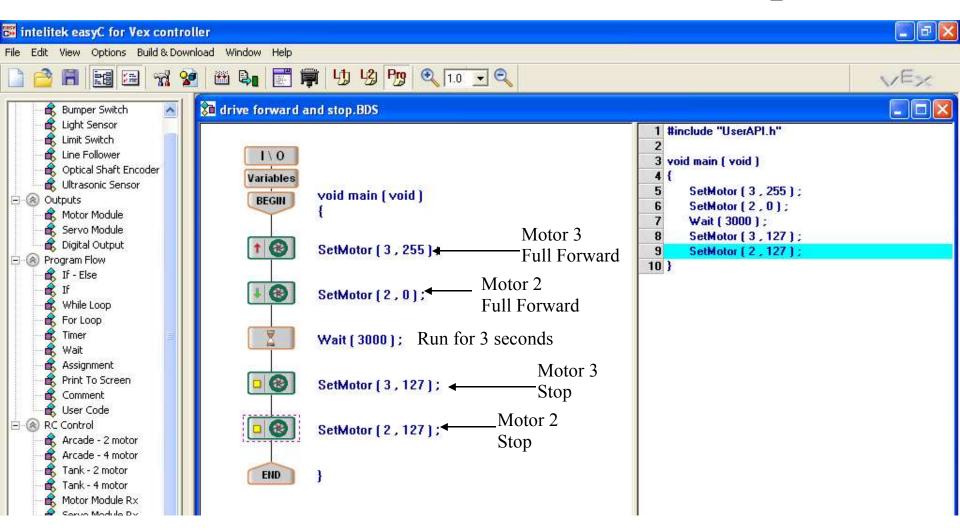


Slide the antenna wire into antenna tube and mount as shown – the antenna wire slides into the little groove near the hole for the mast.

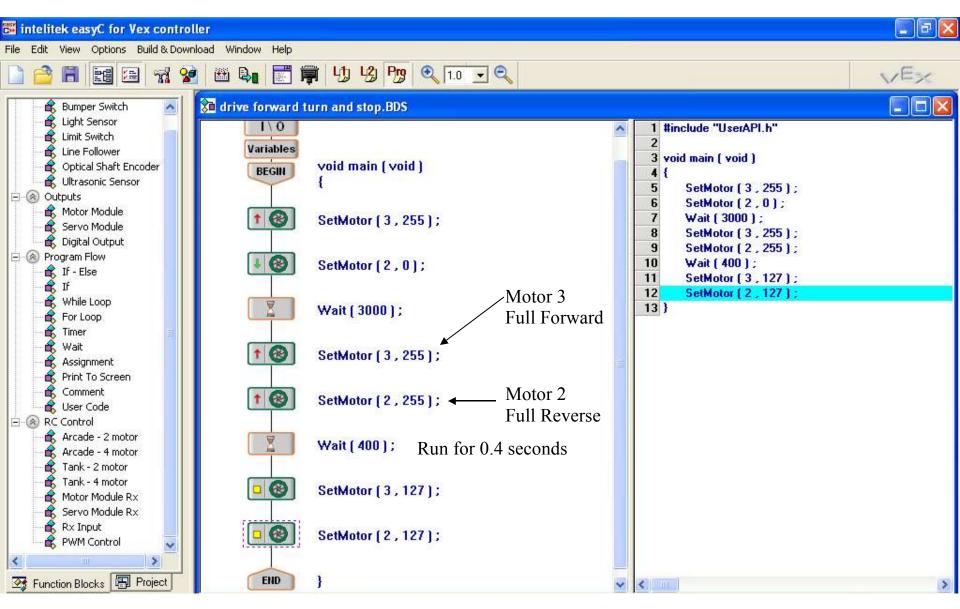
RG Control



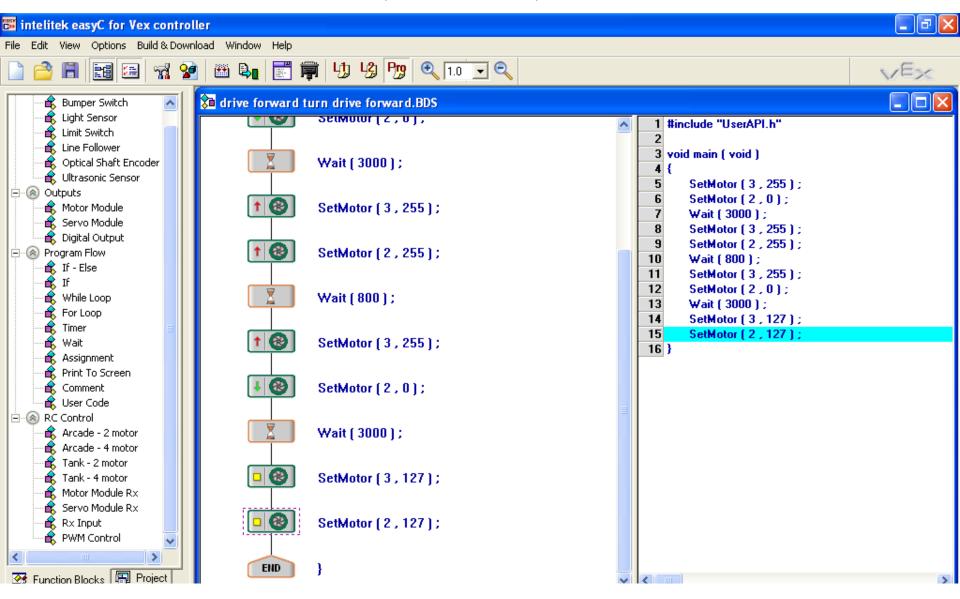
Drive Forward and Stop



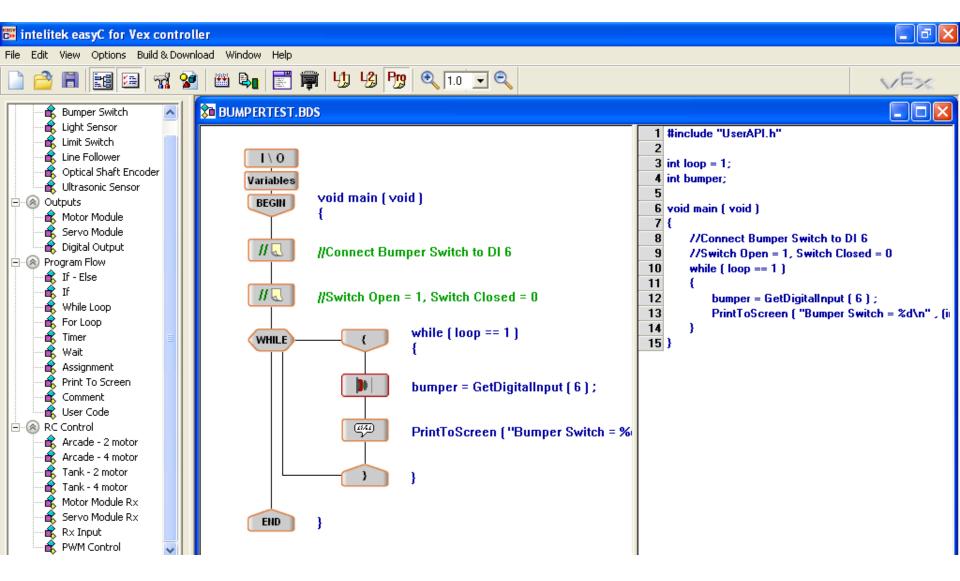
Drive Forward, Turn and Stop



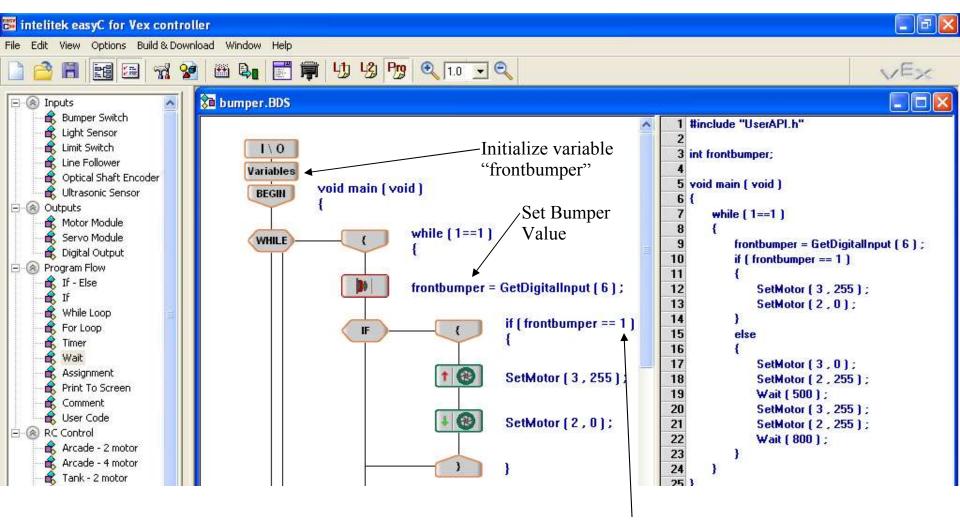
Drive Forward, Turn, Drive Forward



Bumper Test



Bumper Driving (part 1)



Bumper not pushed in

Bumper Driving (part 2)

