

## **Introducing The Smart Train**

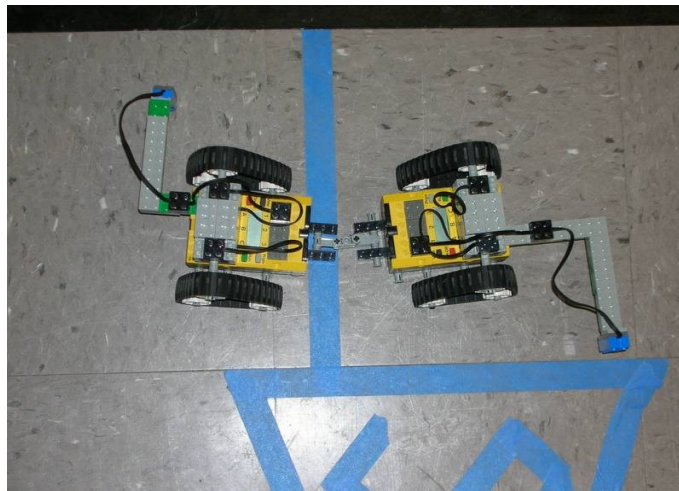
NeufKar Robotics & Hiefer Robotics

Recently NeufKar Robotics and Hiefer Robotics have joined forces to create the most intelligent robot technology has produced to date. These two powerhouses of robotics technology have released their newest masterpiece: the Smart Train.

### **What It Is**

The Smart Train is not one robot, but comprises two individual robots joined together like a train. As such the robot was a challenge to both build and program.

A picture of the robots can be seen below.



### **What It Does**

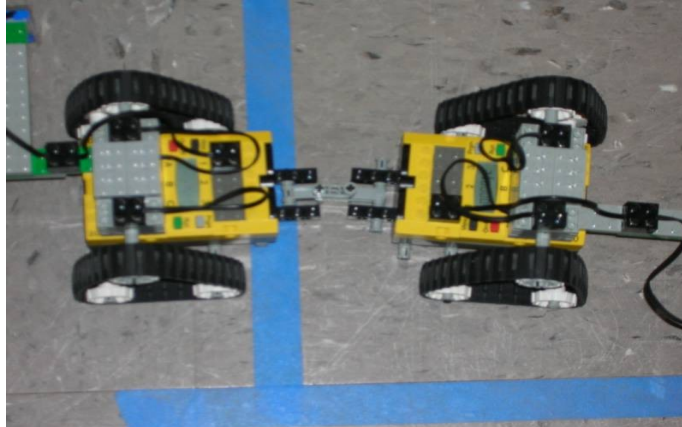
The Smart Train was designed to travel around a course similar to the one below.



The Smart Train is capable of following the black outline of the track while staying away from the area surrounding the track and the blue area inside of the track.

## How It Works

Using a light sensor, the Smart Train traces the black outline of the track. When one robot reaches a “dead end”, it sends a message to the other robot behind it to turn around and continue following the line. This process of one robot sending commands to the other will continue until the two robots have successfully completed the course.



What makes the Smart Train so successful is the hitch design which joins the two robots together. This brilliant masterpiece of simple engineering enables the Smart Train to easily reverse and manoeuvre itself.

Tracks are also used on the robot to offer a sturdy grip with the surface the robot is operating on while, at the same time, keeping the robots compact and easy to turn.

## Applications of Smart Train

The Smart Train has caught the attention of many organizations for its security applications. The Smart Train can easily be programmed to act as a sentinel which will patrol a given area. Heat sensors could also be placed on the robot to detect the presence of intruders which would promptly set off an alarm.

### View our robots on the interweb:

**Hiefer Robotics:** [http://ferbinator.bravehost.com/hiefer\\_robotics.htm](http://ferbinator.bravehost.com/hiefer_robotics.htm)

**NeufKar Robotics:** <http://www.kneuf.com/neufkar/>

