Building a Robot for Our Lessons

By Sanjay and Arvind Seshan
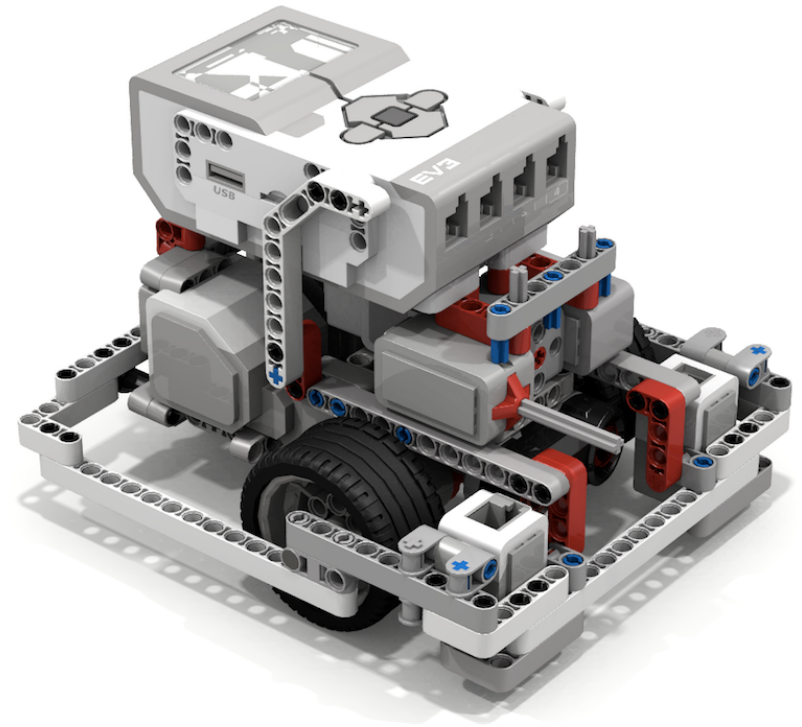
ROBOT BUILD LESSON

EV3LESSONS WORKS WITH ALL ROBOTS!

- You can use any EV3 robot you wish with EV3Lessons.com.

- If sensors need to be in a particular location for a lesson, we usually let you know

- We do provide a robot design for the #45544 Set (DroidBot 2.0) and #31313 (DroidBot Jr). We usually test our lessons using this design.

- You can also consider using the EV3 Educator model from the #45544 set, as well as the Riley Rover by Dr. Damien Kee as an alternative.

- BUT remember that EV3Lessons.com's lessons and techniques will work with any robot – just change the solutions to match your robot's configurations.

DROIDBOT 2.0

- **This robot was designed to be used with our lessons**

- **It uses only pieces in one base EV3 Edu set (#45544) plus one additional color sensor (for the line squaring lesson)**

- **The optional handle is useful for classroom/camp use**

- **You can add a temperature sensor, an infrared sensor, and a sound sensor to complete particular lessons**

- **Build instructions are available on the Robot Design Page**

DROIDBOT JR

- **This robot was designed to be used with our lessons**

- **The handle is useful for classroom/camp use**

- **It uses only pieces in the base EV3 Retail set (#31313)**

- **You can add a second color sensor, a gyro sensor, an ultrasonic sensor, a temperature sensor, and a sound sensor to complete particular lessons**

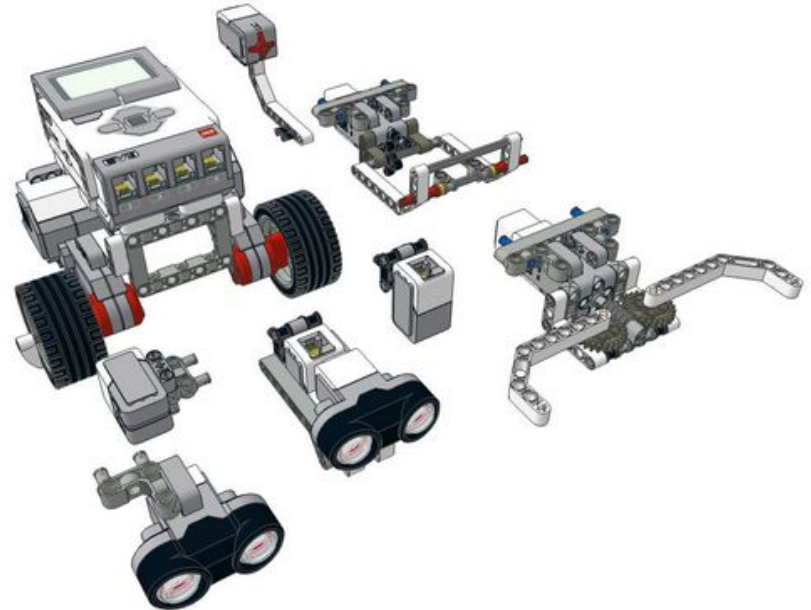- **Build instructions are available on the Robot Designs page.**

EV3 ROBOT EDUCATOR

- **The base robot design in the EV3 Edu set (#45544) will work for majority of our lessons without any changes**

- **Remember to install the color sensor facing down for the line follower lessons**

- **You will need to add a second color sensor for our Line Squaring Lesson**

- **Additional sensors (e.g. infrared) can be added to this design as needed.**

- **Build instructions are available on the EV3 Edu software**

RILEY ROVER BY DAMIEN KEE

- **This robot is a quick build robot by Dr. Damien Kee**

- **If you are short on time for your class, you can build this robot and still use EV3Lessons materials**

- **Add or move sensors as needed**

- **A link to this robot is provided on our Robot Designs page**

CREDITS

- **This tutorial was created by Sanjay Seshan and Arvind Seshan**

- **More lessons at www.ev3lessons.com**