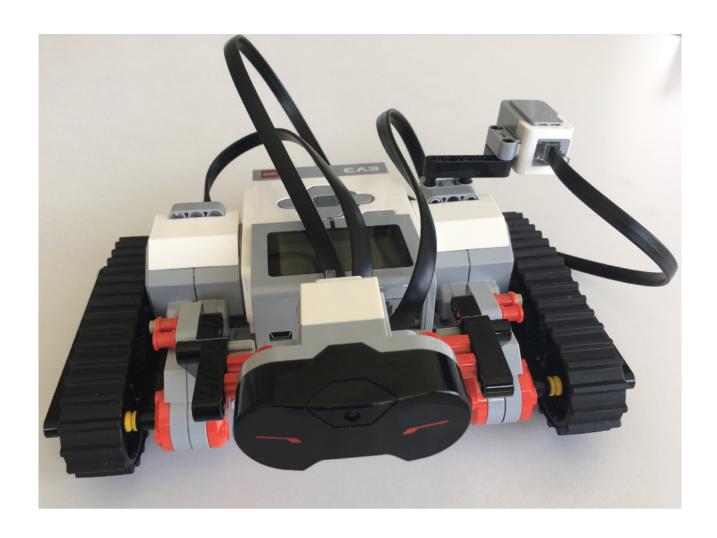
# **MAN4Kids: ManRobot**

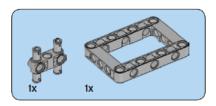
instructions

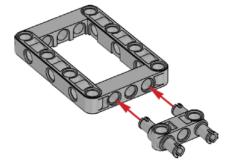
by Miro Wengner Brian Porter

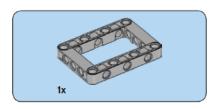


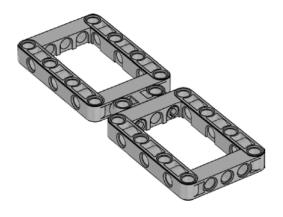
#### content:

1. Assemble part

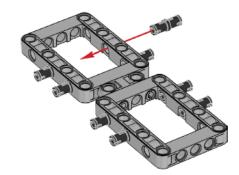


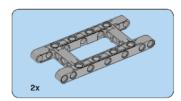


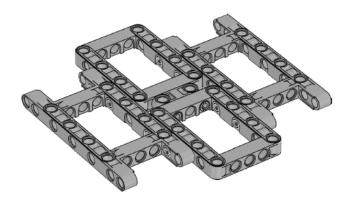


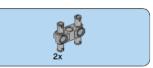


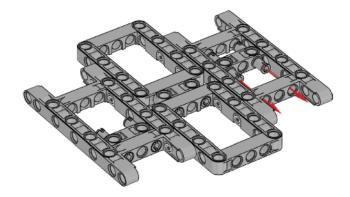




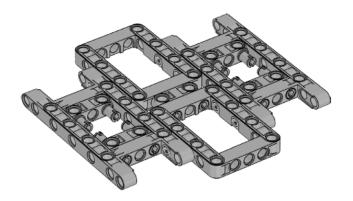


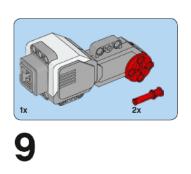


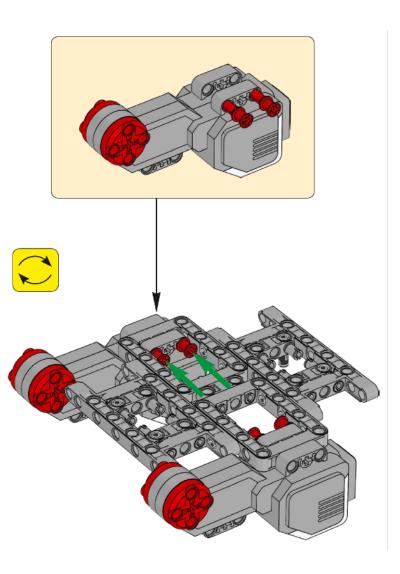




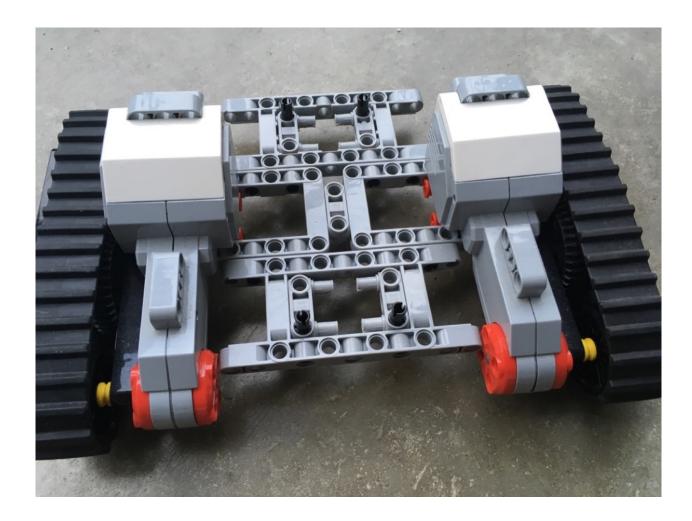


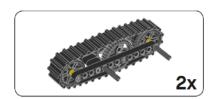


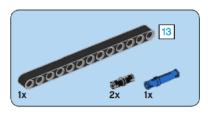




## **Robot Number42: platform with strips**



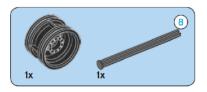


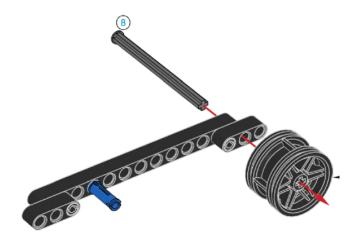


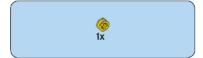




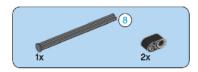


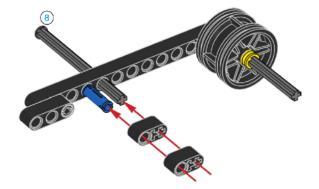


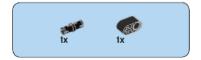


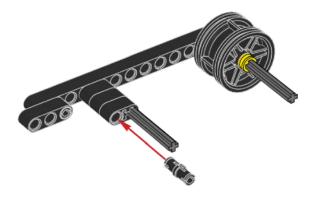


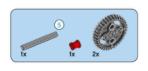


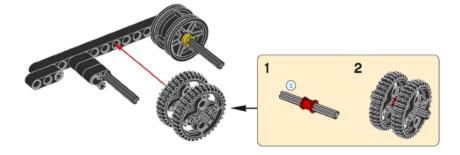


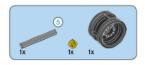


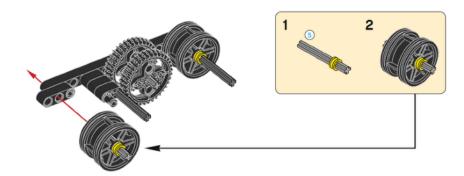


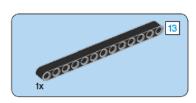


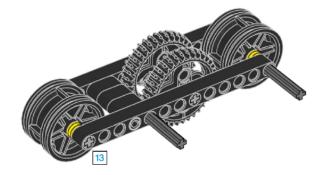




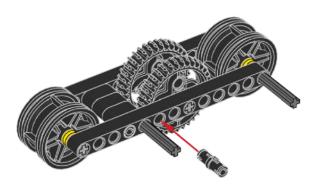


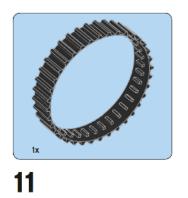


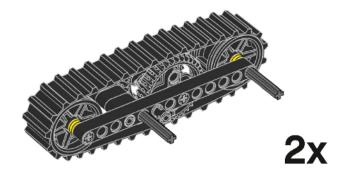


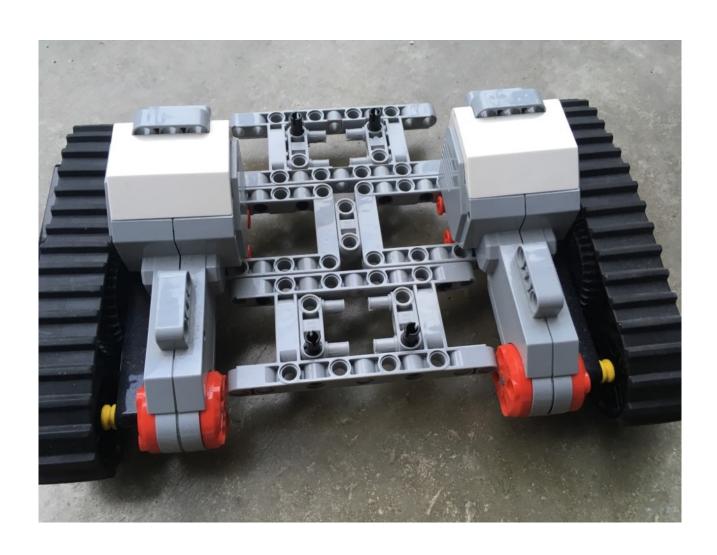










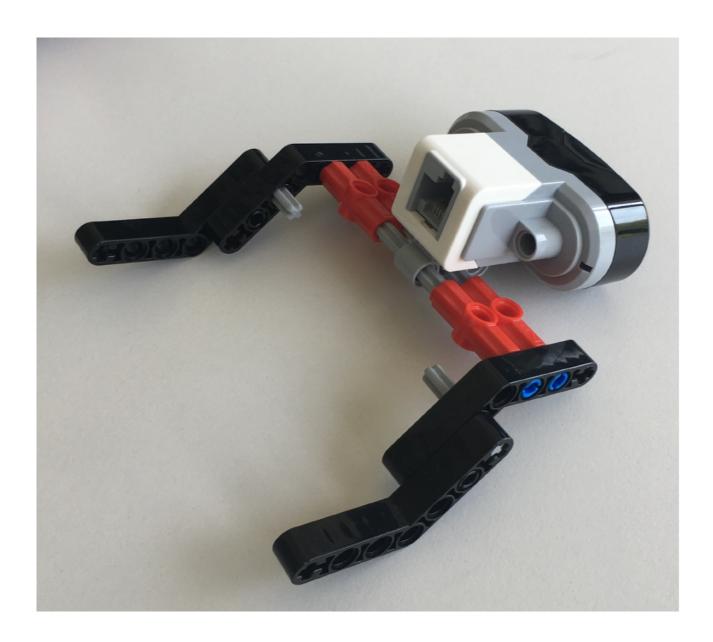


## **Robot ManRobot: wings and action button**



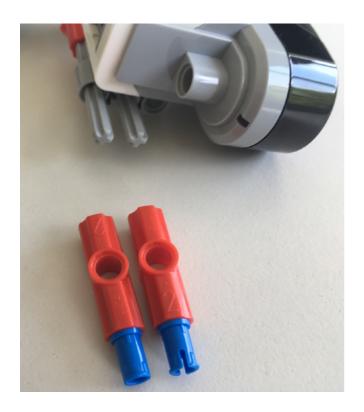


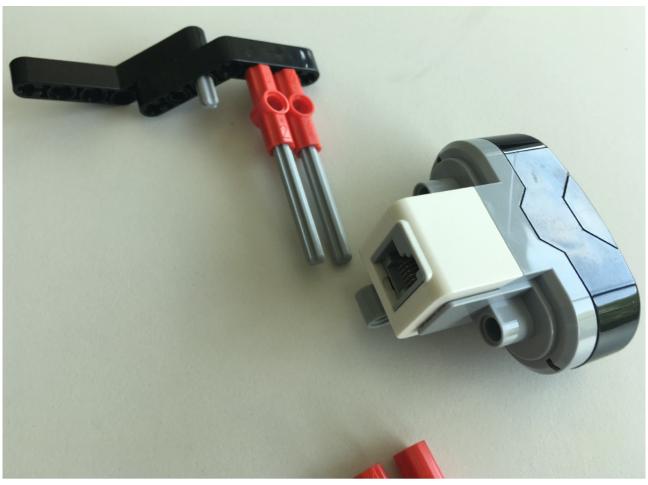
## ManRobo Sensor : infra red sensor









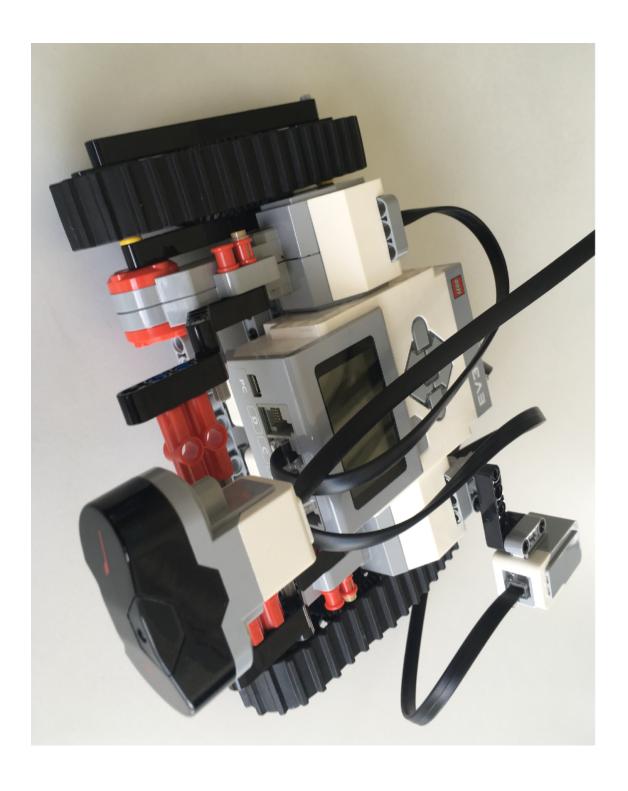




## ManRobot wire motor and button

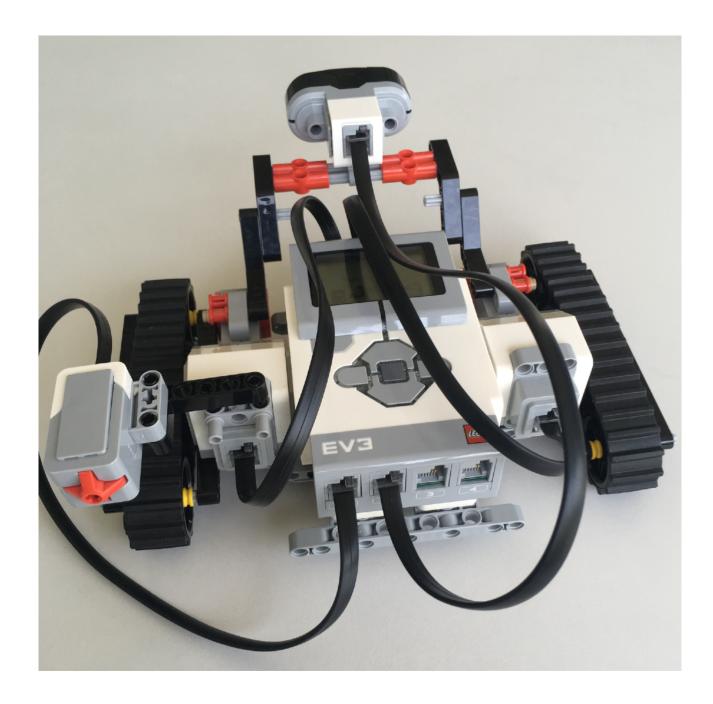
## **Motors:**

- 1. Left Motor to the Socket B
- 2. Right Motor to the Socket C



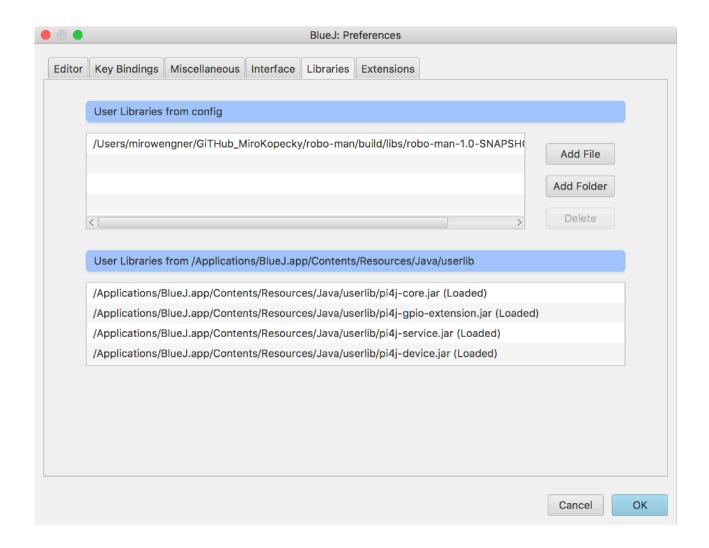
## **Push Button and InfraRed Sensor:**

- 1. Push Sensor to the Socket 1
- 2. InfraRed Sensor to the Socket 2

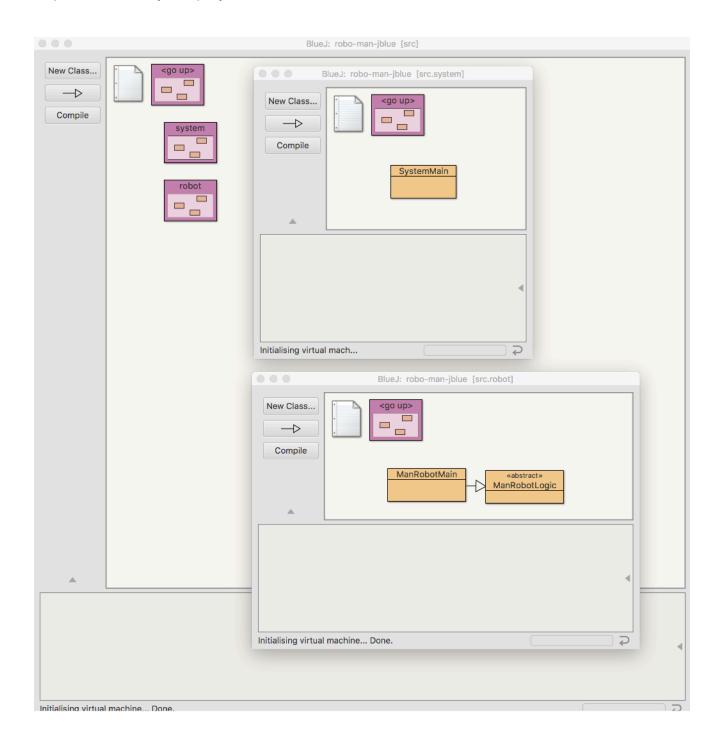


#### Open BlueJ IDE

- 1. go to Preferences -> Libraries -> Add File
- 2. select robo-man-1.0-SNAPSHOT.jar
- 3. close BlueJ IDE
- 4. start BlueJ



## Open robo-man-jblue project



Implement ManRobot logic

```
ManRobotMain - robo-man-jblue
ManRobotMain ×
                                             Close
        Undo
                Cut
                       Сору
                              Paste
                                     Find...
                                                                    Source Code
Compile
 package src.robot;
 import com.robo4j.man.demo.LegoBrick;
 import com.robo4j.man.demo.LeftMotor;
 import com.robo4j.man.demo.RightMotor;
 import com.robo4j.man.demo.TouchSensor;
 import com.robo4j.man.demo.InfraRedSensor;
 import com.robo4j.man.demo.RobotCenter;
 /**
  * ManRobotMain represent the main entry point for the
  * ManRobot program. It is necessary to implement the logic.
  * After the robot logic has been implemented the SystemMain.main
  * method can be exectued in order to process defined action.
  * For more information follow the doc in SystemMain class
  * @author Miroslav Wengner(@miragemiko)
  */
 public final class ManRobotMain extends ManRobotLogic
     public static void main(String[] args){
          ManRobotMain robot = new ManRobotMain();
          robot.run();
     protected void logic(){
        // ManRobot logic is here
```

saved

Implemented ManRobot logic

```
ManRobotMain - robo-man-iblue
ManRobotMain ×
                       Сору
                Cut
                              Paste
                                     Find...
                                             Close
                                                                    Source Code
Compile
 package src.robot;
 import com.robo4j.man.demo.LegoBrick;
 import com.robo4j.man.demo.LeftMotor;
 import com.robo4j.man.demo.RightMotor;
 import com.robo4j.man.demo.TouchSensor;
 import com.robo4j.man.demo.InfraRedSensor;
 import com.robo4j.man.demo.RobotCenter;
 /**
  * ManRobotMain represent the main entry point for the
  * ManRobot program. It is necessary to implement the logic.
  * After the robot logic has been implemented the SystemMain.main
  * method can be exectued in order to process defined action.
  * For more information follow the doc in SystemMain class
  * @author Miroslav Wengner(@miragemiko)
  */
 public final class ManRobotMain extends ManRobotLogic
     public static void main(String[] args){
          ManRobotMain robot = new ManRobotMain();
          robot.run();
     protected void logic(){
          brick.addDevice(new LeftMotor("B"));
          brick.addDevice(new RightMotor("C"));
          brick.addDevice(new TouchSensor("S1"));
          brick.addDevice(new InfraRedSensor("S2"));
```

Execute ManRobot project and upload to the LegoBrick

### requirements:

LegoBrick is connected with the Computer System over W-LAN, Bluetooth or USB cable. LegoBrick is present on IP address: 10.0.1.1

#### Steps:

- 1. Compile SystemMain class
- 2. right click and execute void main(String[] args) method
- 3. small execution window is displayed -> Click OK



- 1. Execution process will be displayed in separate console window.
- 2. wait until the process is FINISHED



## **EV3 Lego Brick Run ManRobot**

- In Menu go to Samples
   Find ManRobot
- 3. Excetue



