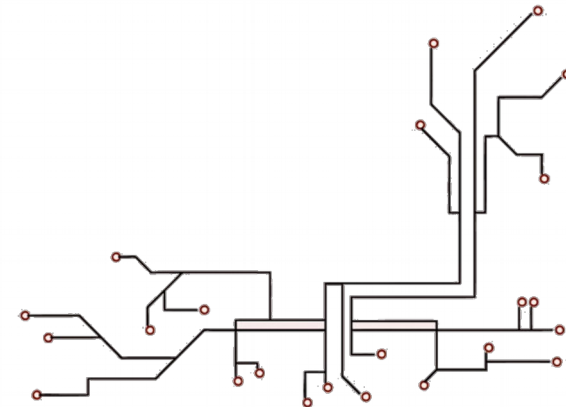
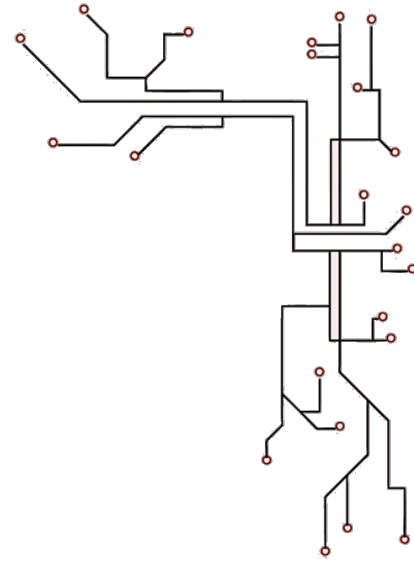


# Intro to LEGO Robotics

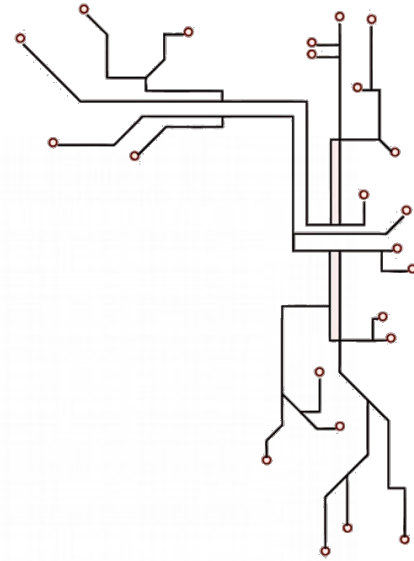
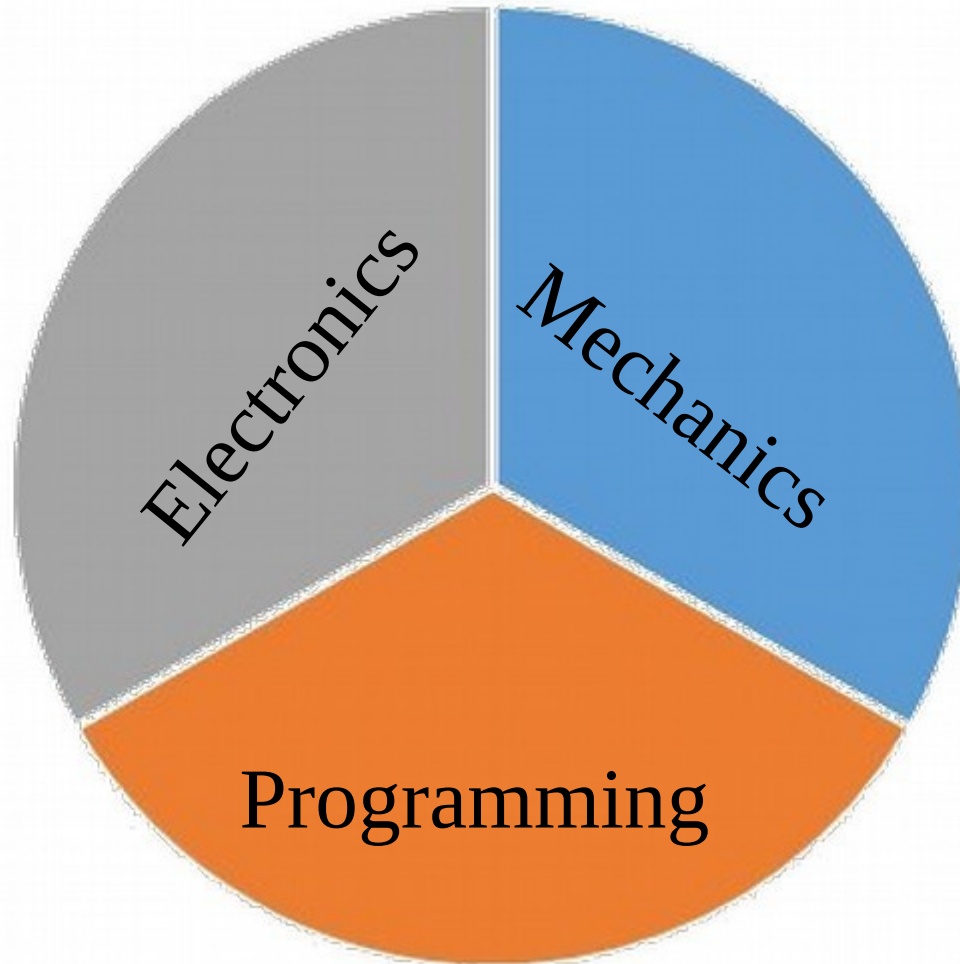
- What is Robotics?
- What is Mindstorms/EV3
- 2-Wheel Robots
- Robot Educator Build



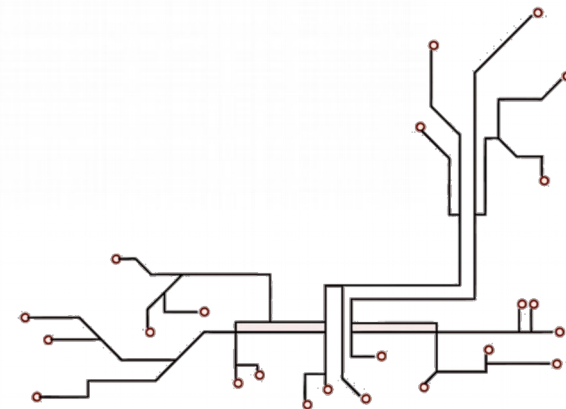
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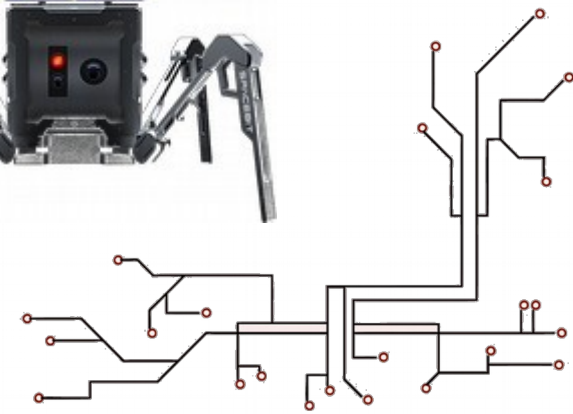
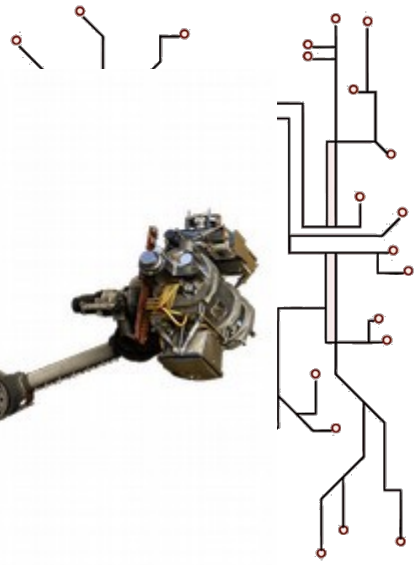
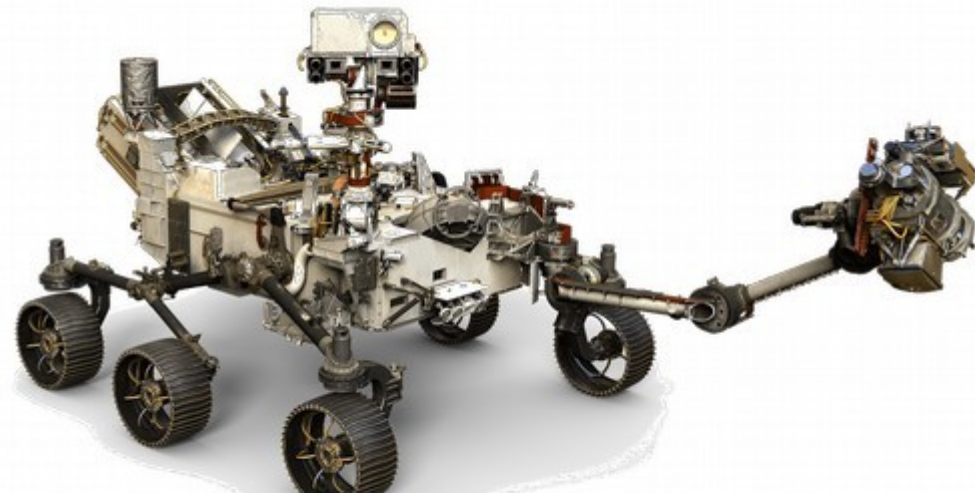
# What is Robotics?



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# What is a Robot?



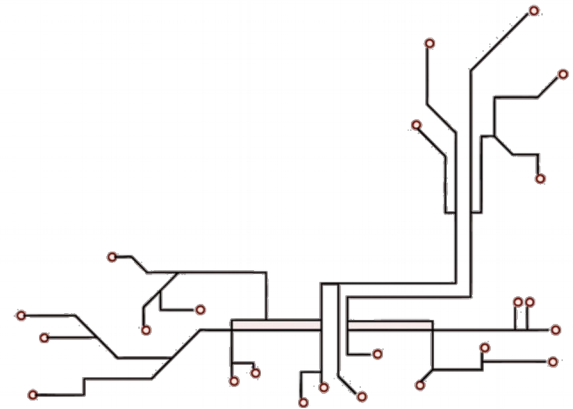
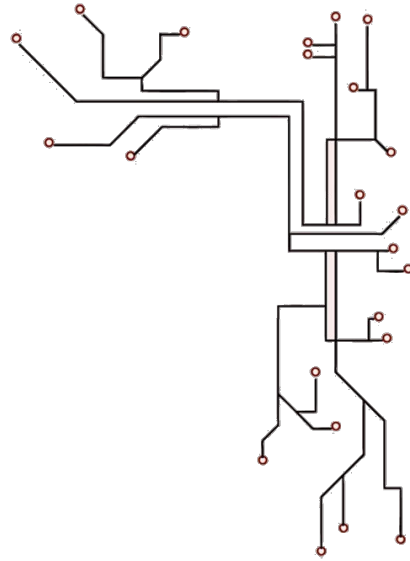
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# What is a Robot?

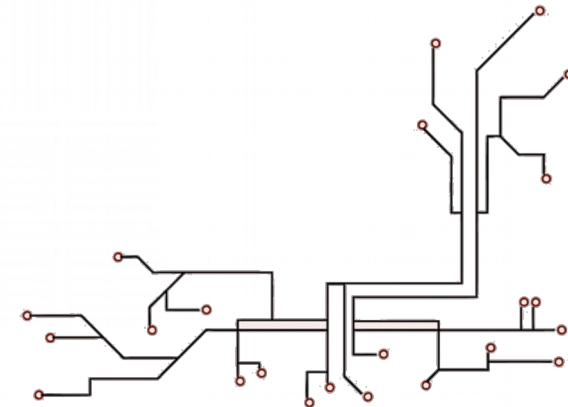
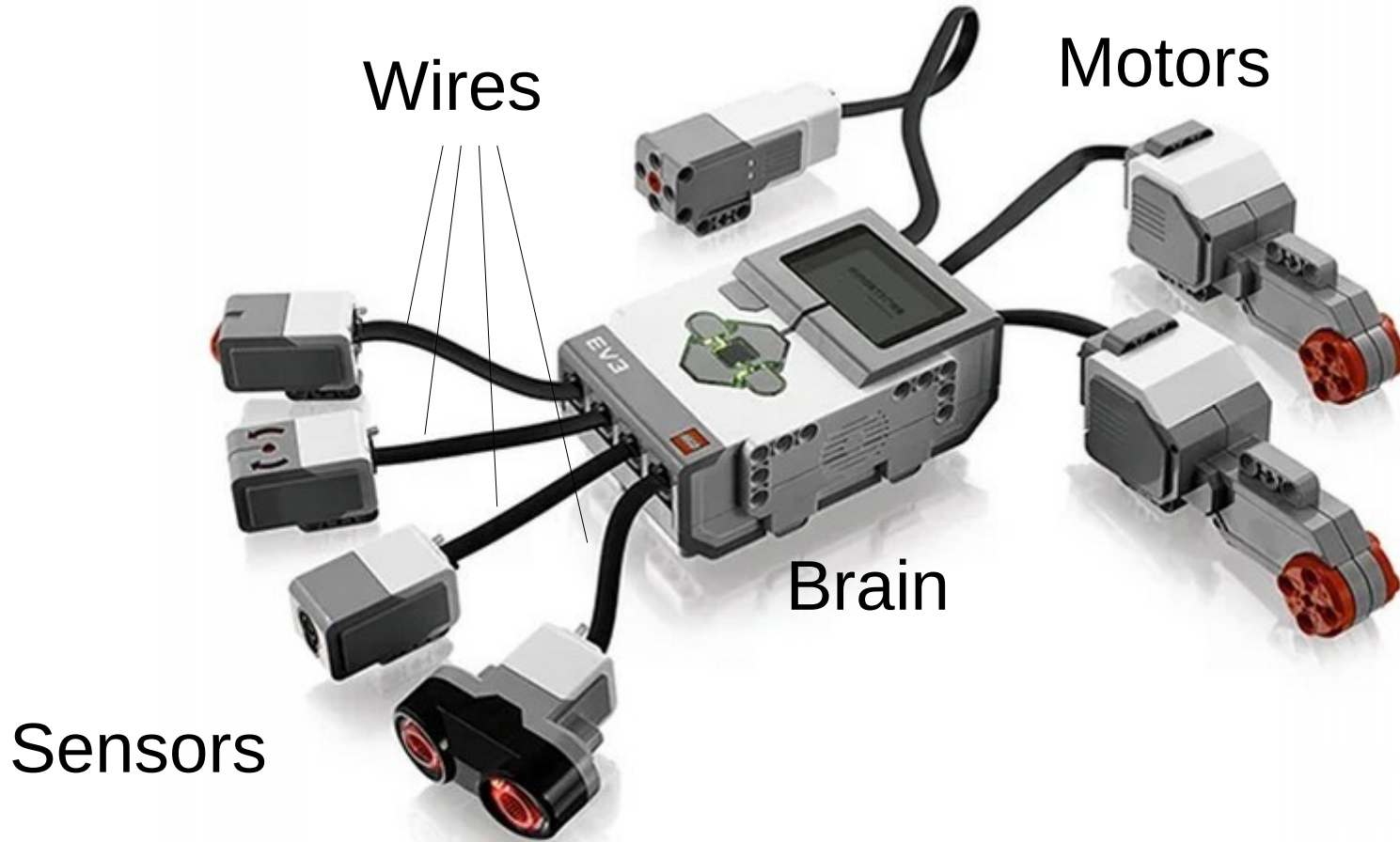
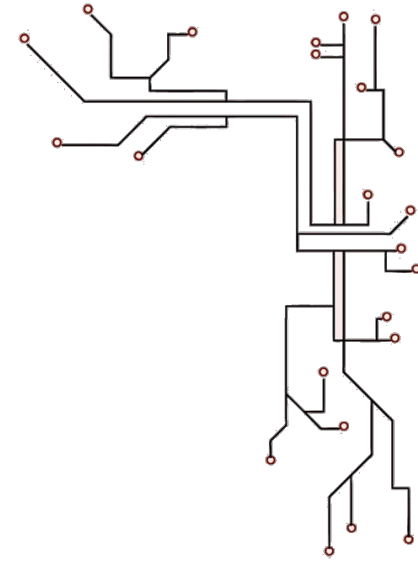
**Almost anything automated...**

But, physical robots usually have these:

- *Computer Brain*
- *Body / Frame*
- *Motors*
- *Sensors*
- *Wires*



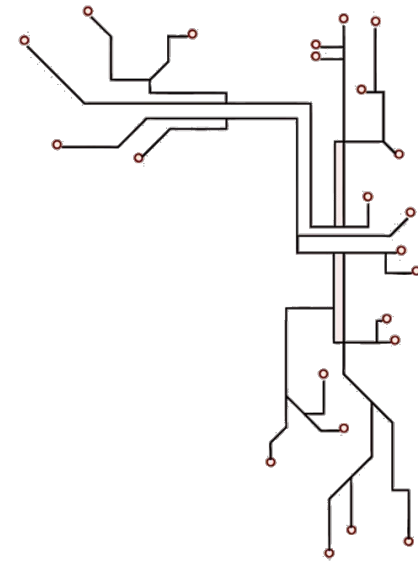
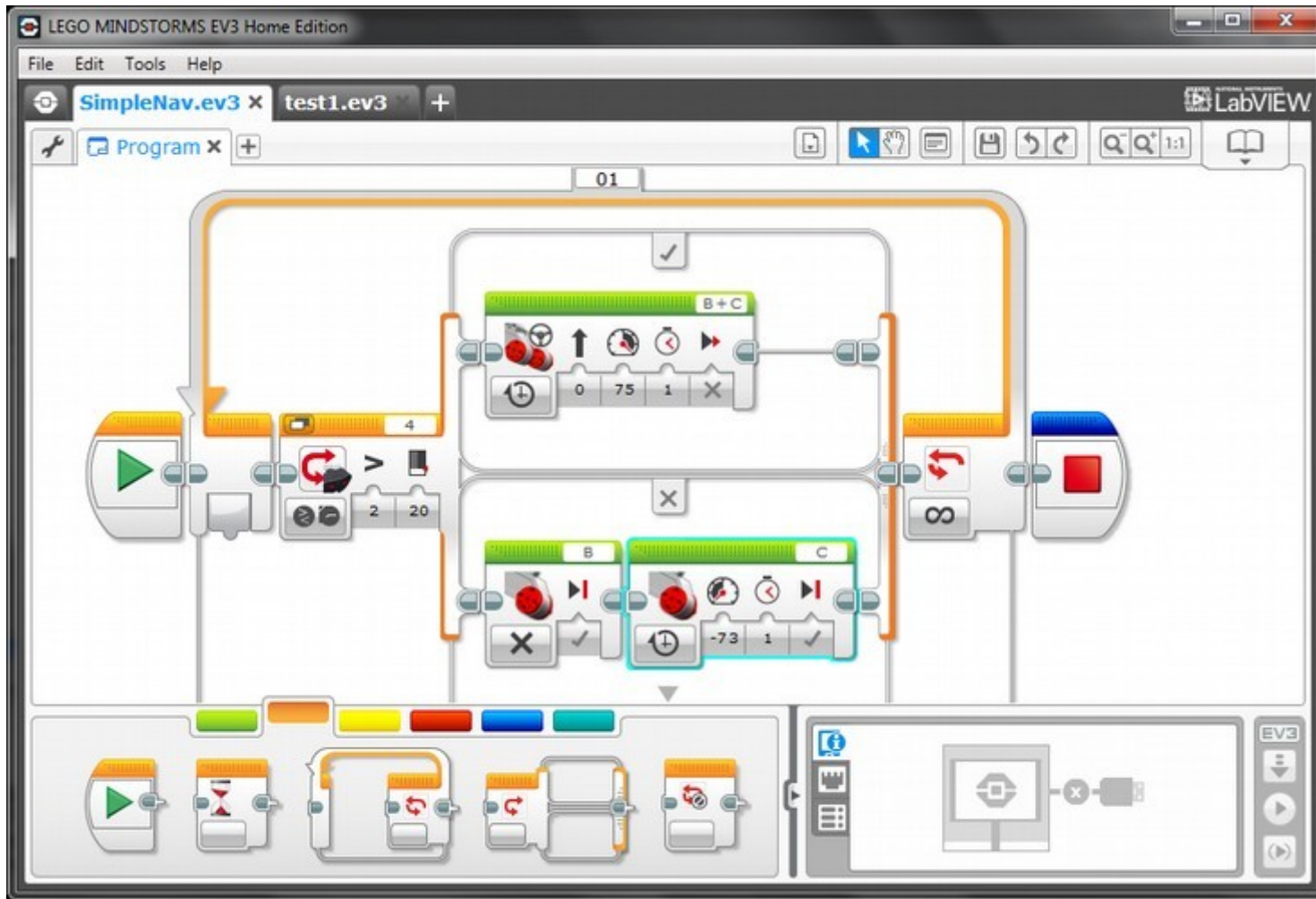
# What is Mindstorms/EV3?



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# EV3 Programming

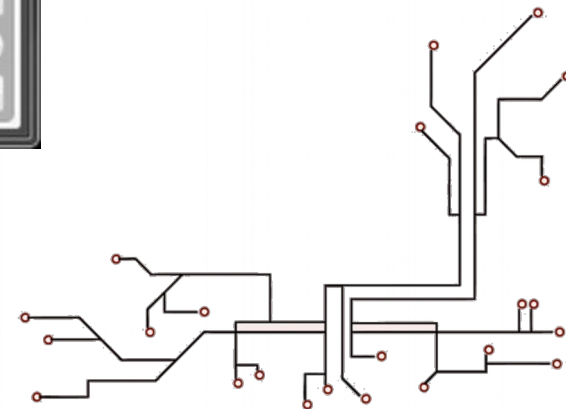


## Block Programming

- Easy to learn
- Not professional...

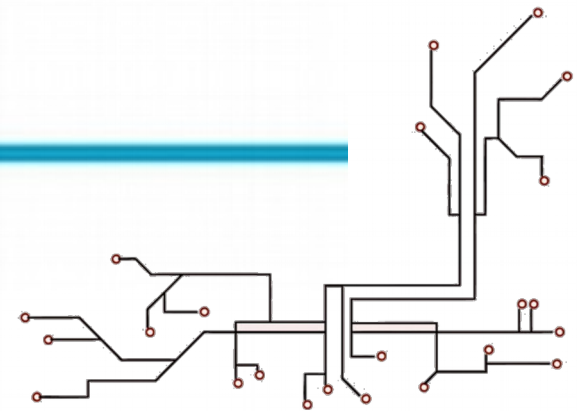
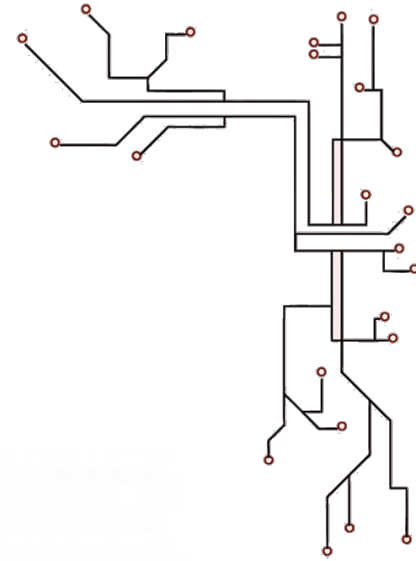
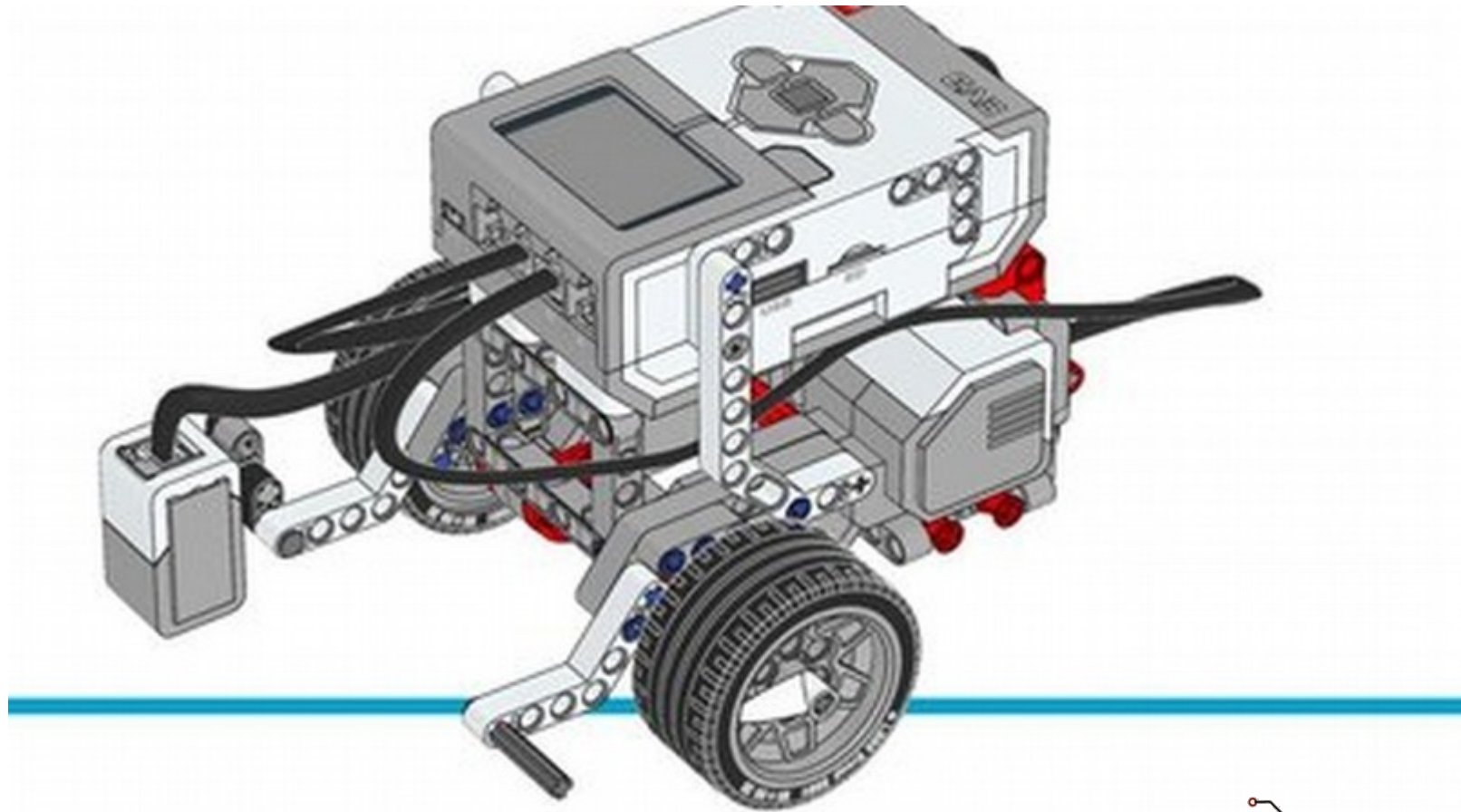
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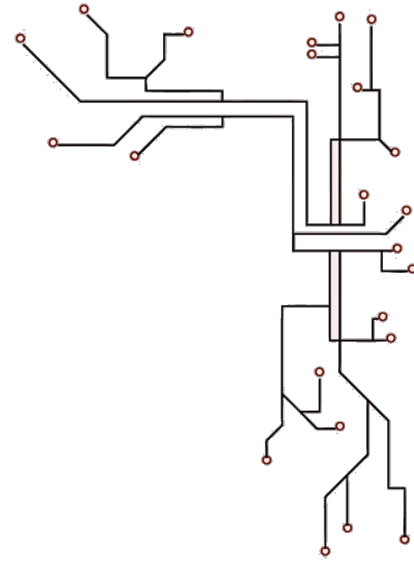
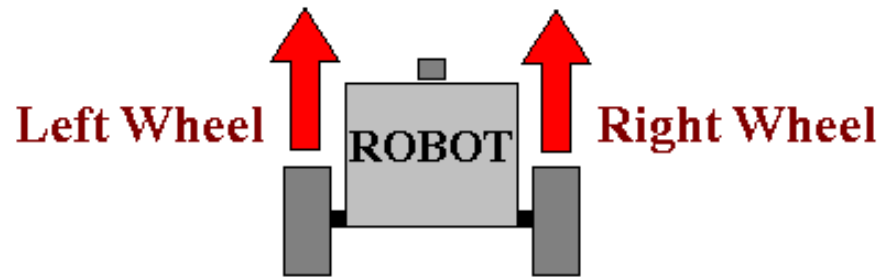
# EV3 Robot Educator

## 2-Wheel Base



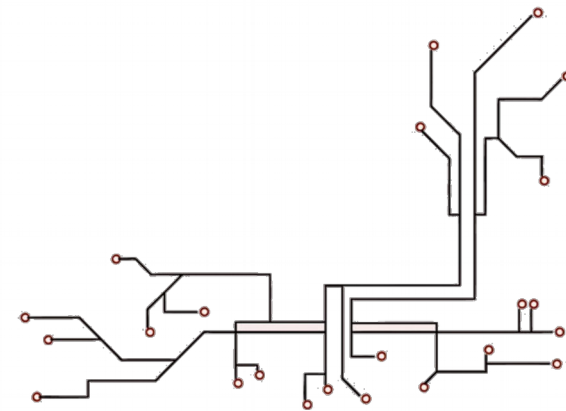
# 2-Wheel Differential Drive

Forward



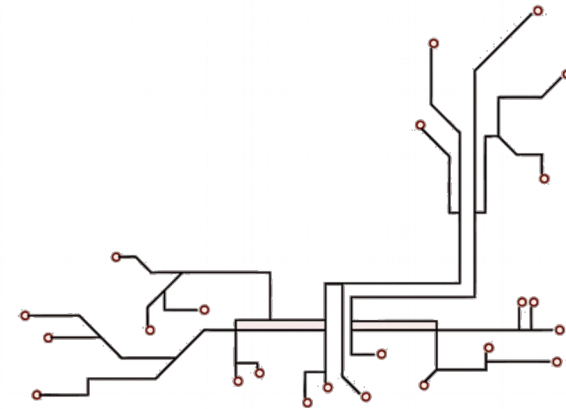
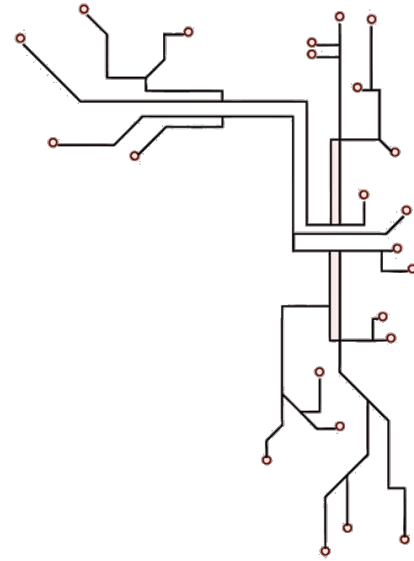
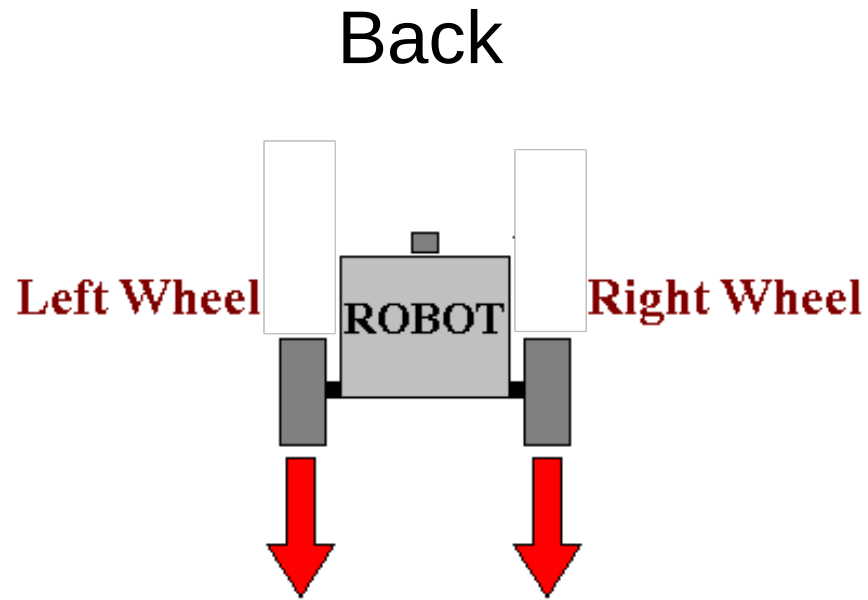
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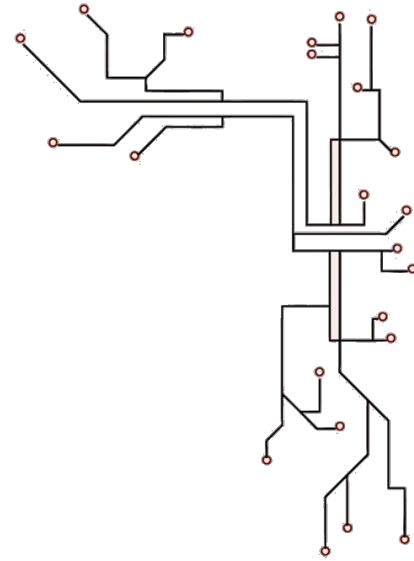
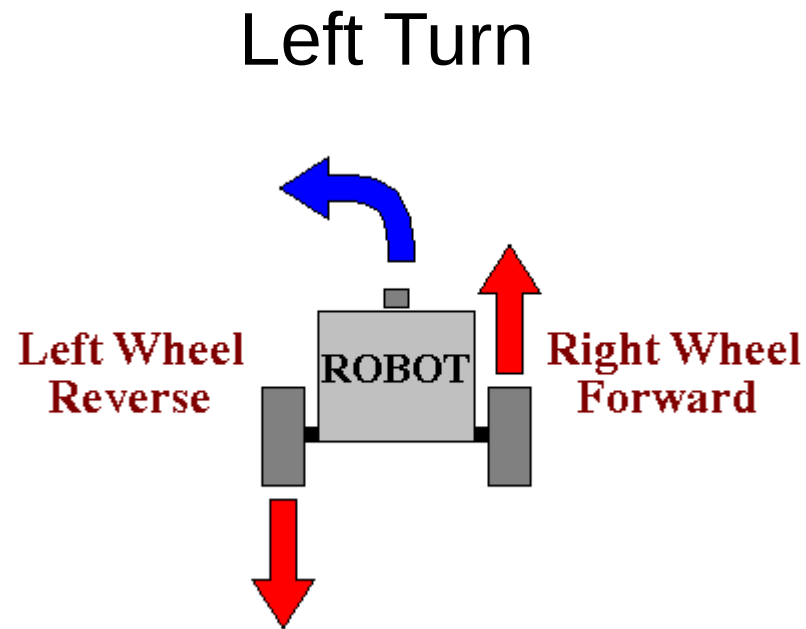




# 2-Wheel Differential Drive

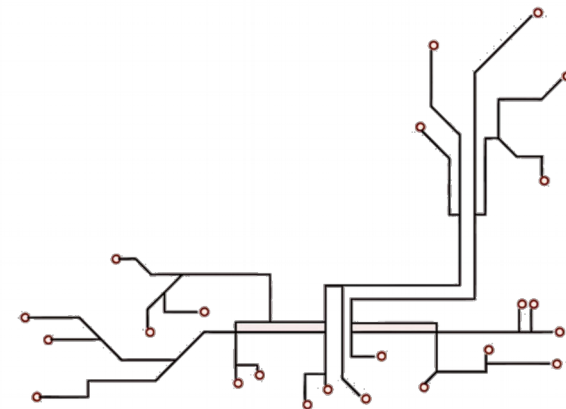


# 2-Wheel Differential Drive



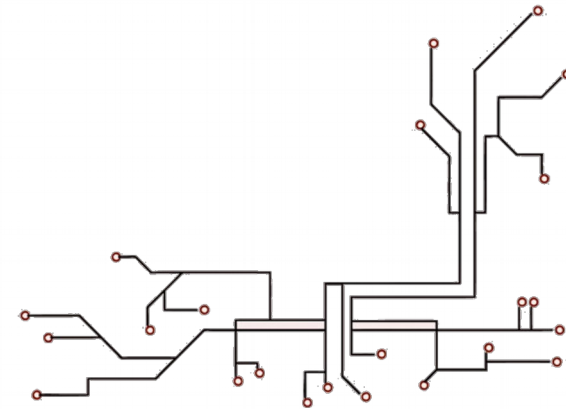
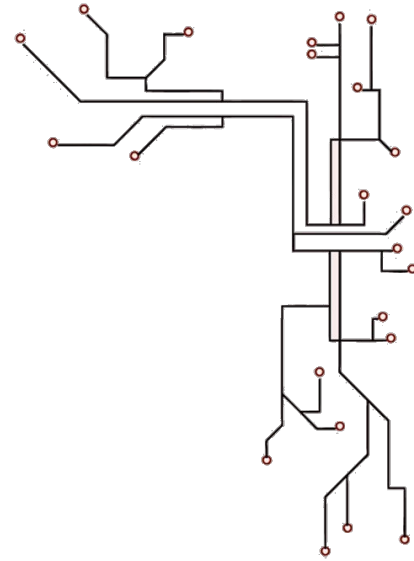
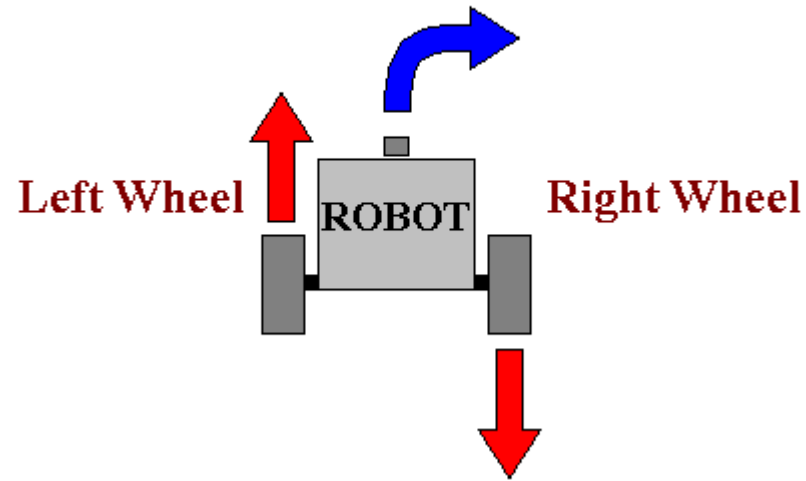
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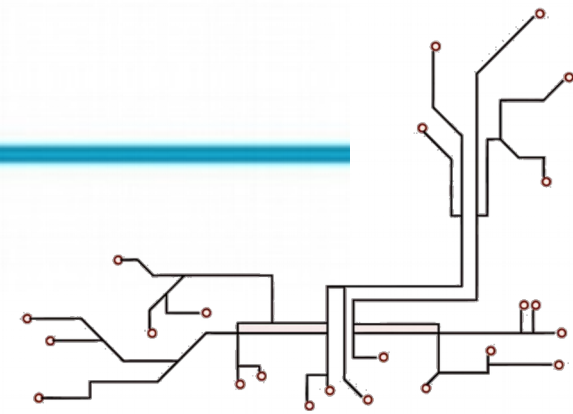
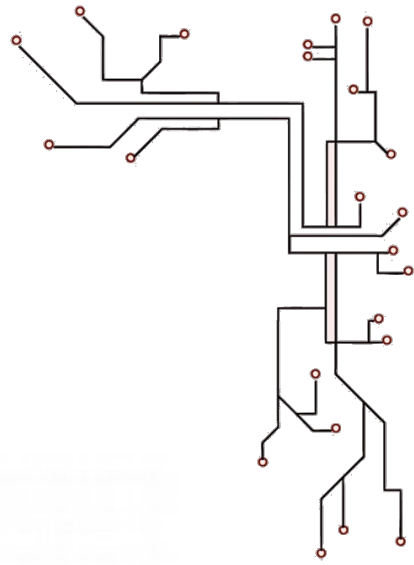
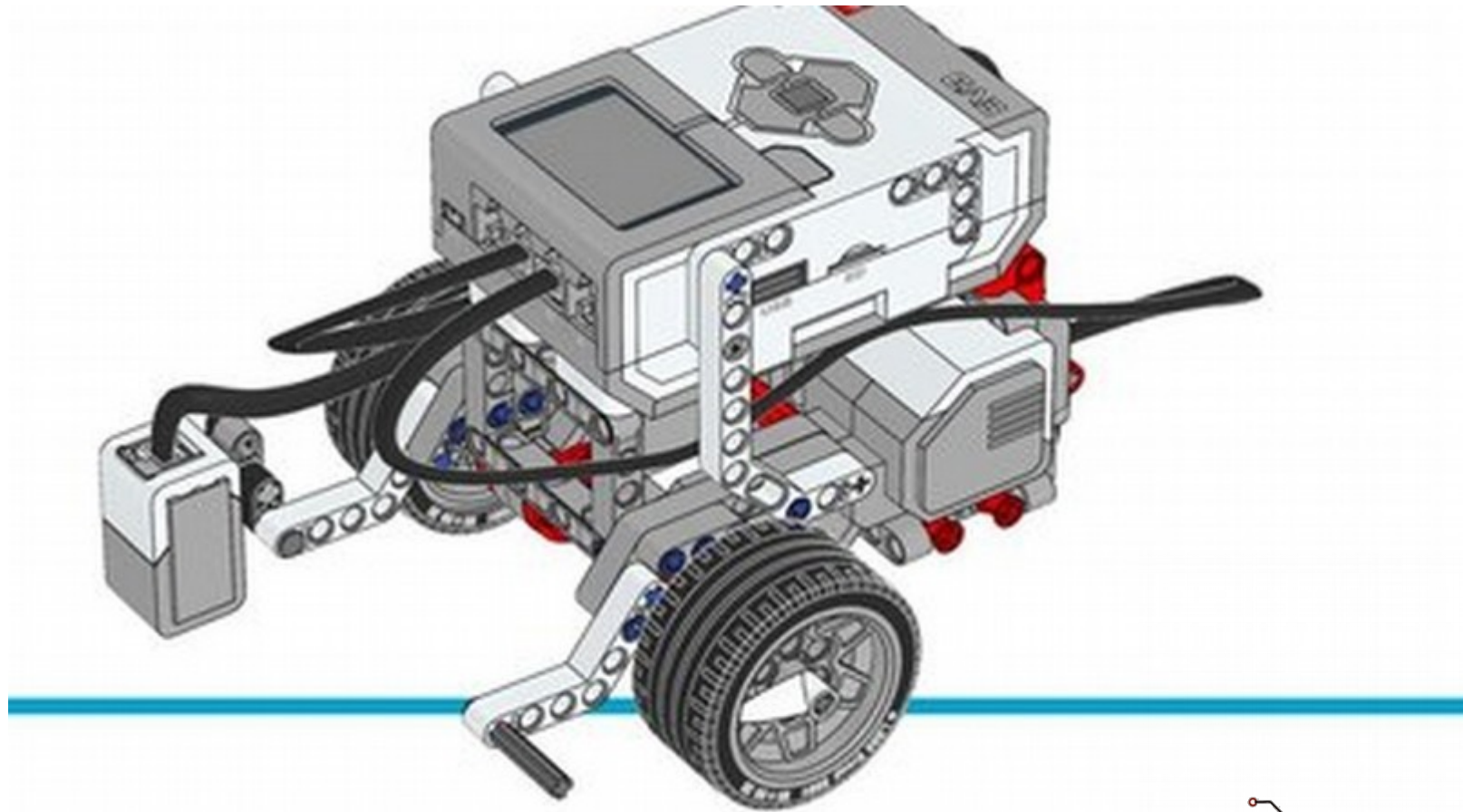
# 2-Wheel Differential Drive

Right Turn



# EV3 Robot Educator

Let's Build!!!

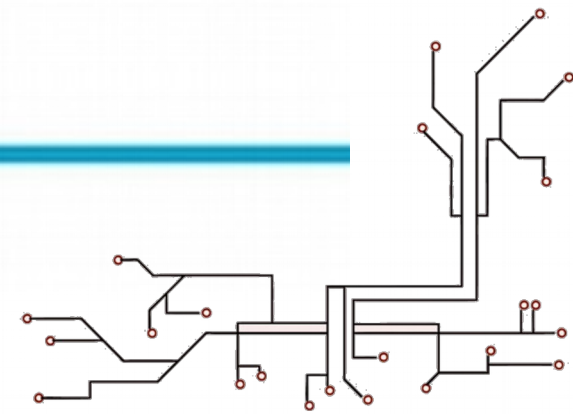
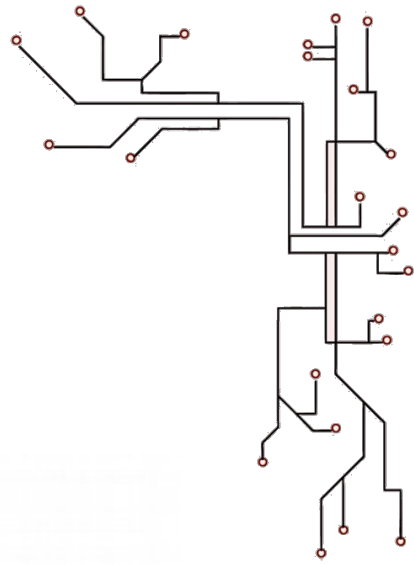
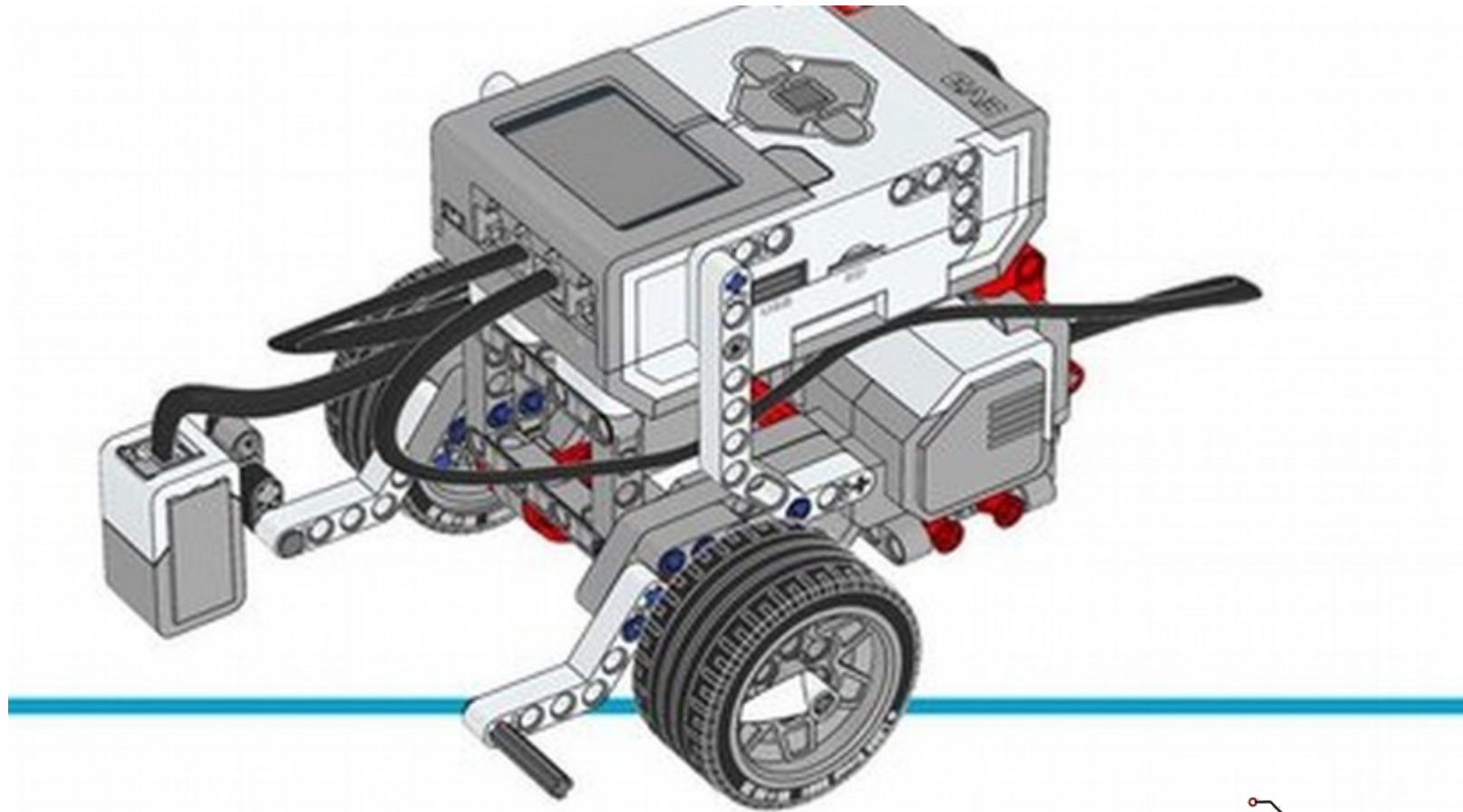


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# EV3 Robot Educator

Then Program...



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