



## MOJ ROBOTEK ME UBOGA

## MY ROBOT IS OBEYING TO ME

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### **Povzetek:**

Da bi bili sposobni opravljati dela v človeškem okolju, se morajo roboti gibati po notranjih in zunanjih terenih. Ta delavnica bo pokrila osnove pri izgradnji našega prvega robota s pomočjo kompleta LEGO MINDSTORMS EDU in programiranje, ki je potrebno, da se robot premika naprej in nazaj. Na koncu bomo izvedli še kratko tekmo med ekipami.

Naučili se bomo:

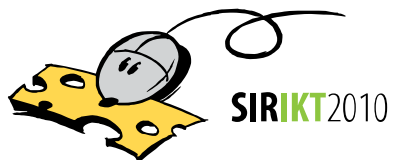
1. sestaviti robota
2. nastaviti LEGO MINDSTORMS Edu NXT Software
3. napisati program s pomočjo programskega okolja NXT
4. povezati robot z računalnikom in nanj naložiti program
5. upravljati in zaganjati programe na NXT-kocki
6. programirati robota, da bo sposoben narediti več različnih zaporednih dejanj
7. tekmovati proti ostalim ekipam

### **Abstract:**

In order to be able to do useful tasks around human environment, the robot needs to be able to move around common types of indoor and outdoor terrain. This workout will cover the basic to build our first robot from LEGO MINDSTORMS EDU set and programming required to make robot move forward and backward. At the end we will also make a little race between the teams.

We will be able to:

1. Built the robot
2. Set up the LEGO MINDSTORMS Edu NXT Software
3. Write a program using NXT programming software
4. Connect the robot to computer and download programs to it



5. Navigate to and run programs on the NXT
6. Program robot to perform multiple actions in sequence
7. Race against other teams