

# DANIELA ANGELOVA

E E D U C A D O R A

HEART Project

(Help educators to teach through robotic tools)

no. 2021-1-PL01-KA220-ADU-000035164

Database and Guide on Educational Robotics

## WEBSITE:

- [Please, introduce yourself](#)

My name is Daniela Angelova and I am a teacher with over 10 years of practice in teaching children from 07 to 12 years of age. I am currently working as an expert in various training centers in Bulgaria that deal with children's education.

- [Have you ever worked with robots during your work with adult learners?](#)

I had the pleasure of working with programmable robots under a national program "Innovation in Action". The robots I saw are offered with different technical characteristics and languages in which they are programmed. The age of the children who work with them is adjusted (from 4 to 16 years)

- [Can you tell us more about the type of robot you worked with?](#)

I till now I've only encountered a robot named Edison

- [How many times did you use the robot?](#)

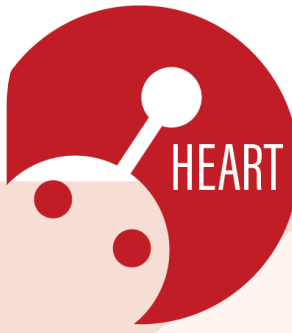
At school and in one of the children's centers I work with, I learned about the basic capabilities of the robot

- [How and in what contexts your robot be used?](#)

I took part in the initial activity, which introduced children and students to the Edison robot - with its buttons and sensors. At this stage, children up to 4th grade have opportunities to program it, and we help them while they conduct experiments, then discuss the results and sometimes write short answers to questions.



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- [If not confidential, what was the costs for implementation](#)

I can't answer this question because basically either school principals and training center owners are involved in this type of training innovation. Each of them is individually responsible for participation in national programs, for the free provision of new technologies or for the temporary use of such for rent.

- [Have you experienced any problem\(s\) with the robot?](#)

I was certainly very worried the first time an external expert came to us to explain how to use the robot, what it is useful for, what are the main ways of commands. Honestly, it turned out to be quite easy even for a person who has not used such technology before, but my prejudice that it will be complicated played a bad joke on me. I didn't really have a problem working with the robot, but rather I had a problem with my confidence in whether I would be able to handle it.

I did a few exercises with the robot together with the external expert and gained the necessary confidence to be able to present it to the children.

- [From your point of view, is this robot suitable for teaching children?](#)

In my opinion, the activities and training of children with programmable robots enrich the personal and sensory experience of children related to educational areas "Mathematics" and "Design and Technology", development of thinking, observation and concentration . The problem of children's concentration is getting worse, and I see that when something is new and interesting to them, they stop being distracted and enthusiastically start studying and researching it, which then helps them solve complex problem.

- [From your point of view, is this robot suitable for teaching adult learners with disabilities too?](#)

Yes, I would like to share that I think that the work with robots is useful for the children, because through it they learn to even work in a team, the robots form a positive attitude towards technique and technology, the children easily adapt themselves to the new learning methods and the robots provoke their interest in science.