

Develop Team work abilities

Institution	Polytechnic Institute of Bragança - Portugal
Disciplina STEAM	Robotics
IDD Student Context	College students with Autism Spectrum Disorder (ASD) Level 1 and Attention Deficit Hyperactivity Disorder (ADHD)
Resource used	Mbot Robots
Description of the step-by-step activity before the project	
1. Introduction to scratch programming 2. Introduction to the concept of sensor and actuator 3. Explore the capacities of the Mbot robot 4. Propose a challenge based on the Mbot Apply 5. Form Groups 6. Evaluate the work in progress of the proposed Challenge	

Description of the activity step by step (changes in red)	
1. Introduction to scratch programming 2. Introduction to the concept of sensor and actuator 3. Explore the capacities of the Mbot robot 4. Classify the IDD into Taxonomy: Use the Taxonomy framework to identify cognitive and communication challenges associated with the student IDD. 5. Create the Profile for the Students: Develop profiles detailing individual interests in team work. 6. Search for Similar Activities: Identify different resources that can be applied for team work. 7. Define the Activity in the User Model: Document the activity, associating it with the students' educational plans for social skills and team work 8. Form groups 9. Monitor the student interaction with the group 10. Evaluate the work in progress of the proposed Challenge	
Extra resources	https://scratch.mit.edu/ https://www.makeblock.com/pages/mbot-robot-kit
Similar activities	Team work using different robots, such as Lego Mindstorms, Sphero or Braccio from Arduino



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