Educational Robotics needs modular and configurable robotics platform to teach and research.

http://www.ieee-ras.org/publications/ram/ram-special-issues/special-issue-on-educational-robotics
"The scope of this special issue is to advance knowledge in the field of robotics applied to formal and informal education. The idea of robots as educational tools goes back to the late 60s, when Seymour Papert formulated the theory on learning called "constructionism", which points out the relevant role played by artefacts in the learning process. Educational robotics broadly refers to the use of robots for educational purposes. There are several ways in which robotics and robots have been employed in educational activities: from object of study to medium that facilitates the transfer of knowledge and even companion, in which the robot performs the role of tutor or peer during the learning process.

Although the ICT revolution (computers, Internet and other digital/online devices) is still struggling to find its way into schools in many countries, the number of educators, researchers and students interested in educational robotics is growing as well as the number of platforms available in the market.

However, there are still several grey areas surrounding the field of educational robotics, which make the role of robots in learning and teaching unclear. Among the main open issues are the lack of empirical evidence on the educational effectiveness of robotics, which is related to the lack of evaluation criteria and the difficulties in incorporating robotics activities in school curricula. This special issue seeks to address some of these questions by soliciting original and unpublished articles. Contributions can be theoretical or experimental studies. Descriptive paper telling experiences with robots in class or in informal educational contexts are also accepted provided they clearly address one of the topics of interest listed below. The special issue is open to any kind of robotic platform (self-constructed or commercial, open or closed), it is interested in the perspectives of learners (pupils, students, young people) as well as educators (teachers, tutors or parents) and it is not limited to any age groups (from nursery to university) or educational context (formal and informal)."

The RagnaR(tm) robot is precisely targeted the need of students, educators and researcher of being able the efficiently and effectually experiment and experience real robot physics and system behavior. Facilitating Open Robotics Control enabling