



The A10 Robot, Semi-humanoid Robot for Education

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Inventor and manager of EsRobotica El Salvador

Abstract:

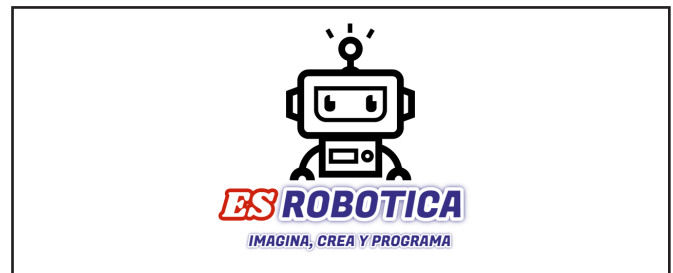
Robots are those machines that day by day take shape as a fundamental part of our lives, different types of robots are developed around the world, they are built from the Industrial areas to the end of Education, in El Salvador it is not the exception, it is they have the first inventors and researchers developing robotics projects of different kinds, among them we can mention Ademir Bermúdez, who through the years has developed different prototypes of robots. Some from the Gerardo Barrios University (UGB) and other personnel.

Within the UGB, the best known are Robotito, Robi a robot for the social interaction of children with special needs, Robot Alan T a service robot with which he is in AI processes and a robotics kit from 4 grade to among others .

The A10 semi-humanoid robot is in 3D printing, measures 135 cm, has two arms, a waist, a face and a base with wheels, the project as such its purpose is to be a learning robot for children and young people with which it can be programmed by:

1. Miniblock
2. Ardublockly
3. Arduino
4. Visual Studio
5. Snap4Arduino,
6. by application through Android

The robot has sensors to interact with the environment, through its motion, distance, color and sound detection



sensors, in turn it has two status screens and a text screen, it has a sound horn with a memory 32GB internal.

Each new version is better than its predecessor, and the final idea is to have a functional robot, printed in 3D, easy to control and that can be programmed on different platforms.

The name is from the history of Astro Boy's predecessor, which was called A106 or ATOM.

Biography:

Ademir Bermúdez Aguilar, is a graduate in Statistics graduated from the University of El Salvador, currently works at the Gerardo Barrios University as a researcher and coordinator of the INNOTECH UGB Team, over time he has taught robotics workshops, talks, conferences, presentations both to Nationally and internationally, in the countries of Nicaragua, Mexico and Los Angeles California, its main projects within the institution are Robotito, Robot Alan T. For service and AI (a fairly advanced project), ROBI for social interaction for children in need Specials such as Autism, among others, in turn works in the Nutrition company as support in the robotics project and in his own company that is under development with the name of ESROBOTICA, from where Robot A (all its versions from the A01 to A10 version, waiting one day to have a multifunctional robot)

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