

ARDUINO AS A MILLENNIUM BREAKTHROUGH IN ELECTRONICS

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Arduino revolutionized the world of electronics and electronic design. It erased the threshold to enter the world of development and design of devices, allowing creating complex hardware systems by both novice engineers and professionals with

many years of experience.

The origins of Arduino go back to the small-town Ivrea, Italy. Massimo Banzi, an assistant professor at a local institute, faced a specific problem. The teaching of Italian students in the 2000s was based on the Basic Stum platform – a small board programmed in Basic dialect. It was produced in America, it cost more than \$100, and the use of Basic gave serious restrictions on the complexity and speed of the projects produced. After thinking, Massimo decided to create his own training board so that it was produced somewhere closer and cost 3 times cheaper. This is how the famous Arduino was created (Amperka, 2017).

Today, Arduino is widespread due to its low cost and understandable development environment. Arduino boards are used by both novice programmers and seasoned professionals, and the variety of projects on this platform is surprising and amazing, for example:

- [Power Laces – The Auto Lacing Shoe,](#)
- [Tiny Weather Display System,](#)
- [Fingerprint Scanner to Your Garage Door Opener,](#)
- [Bartender](#) (Gyver, 2019).

It is not surprising that the number of projects designed on Arduino is very large. The only thing to keep in mind is that the possibilities of Arduino are limited only by the knowledge and imagination of its user.

References:

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