

## Interview with Tesla

Interview with Nikola Tesla, a man known for his contributions to the development of the modern world.

From a normal boy to an exceptional electrical engineer.

Tesla was born in a small town in Croatia. Brilliant and often remembered Tesla's work. His work was also known to the world. In Tesla's life, there were many successes and failures. One of his greatest successes was the development of the AC motor. Tesla was also involved in the development of the first power plant in America. He was a true pioneer of the modern world.

Where did you study?

I studied in a school because I had a disability. After my studies, I worked at a hospital in Graz, Austria. There, I learned about the human body and how it works.

What inspired you to study at the University of Graz?

During my studies, I was interested in electricity and its applications. I wanted to find a way to generate electricity from magnetism. This idea led me to invent the AC motor. I also invented the first power plant in America.

What is the main advantage of an induction motor?

The main advantage of an induction motor is that it has no brushes. It is a simple and reliable machine. It can be easily controlled by changing the frequency of the supply voltage. This makes it suitable for many applications.

Why did you move to America?

I decided to move to America because I wanted to work for a company that was interested in my inventions. I was offered a job at the Edison Company. However, they did not want to pay me enough money. So, I accepted a job at the Westinghouse Company. There, I developed the first power plant in America.

pridonio k sebi. Godine 1885. njegova je tvrtka Westinghouse Electric kupila pravo na korištenje mojih izuma izmjenične struje čime je započeo elektroenergetski rat.

Kako ste dokazali prednosti izmjenične struje?

U to vrijeme Edisova istosmjerna struja je već bila prihvaćena kao način proizvodnje. Edis je tvrđao da je moja struja opasna te sam učinio demonstracijom pri kojoj sam palio svjetiljke pomoći vlastitog tijela, tj. puštajući da izmjenična struja prolazi kroz mene. Time sam dokazao prednosti izmjenične struje.

Što je Teslina zavojnica?

Godine 1891. na temelju svojeg znanja izumio sam Teslinu zavojnicu. Ona je još uspješnije proizvela izmjeničnu struju visokih frekvencija. Ona ima mnoga primjena. S tom zavojnicom i svojim izumom zemaljskih stajnih valova s prijelaza u 20. stoljeće, koji su zapravo značili da se planet Zemlja može iskoristiti kao veliki elektični vodič, izveo sam neke spektakularne pokuse. Samostalno sam proizvodio munje dulje od trideset metara, a jednom put sam upalio 200 svjetiljki, raspoređenih u duljini 40 kilometara, koje međusobno nisu bili spojeni žicom. Koji su vaši ostali izumi?

Moji ostali izumi su: telefonski repetitor, načelo rotirajućega magnetskog polja, višefazni sustav izmjeničnih struja, transformator, bezična komunikacija, radio, fluorescentna svjetla i više od 700 drugih patentata.

Možeš li nam reći mesto više o svom transformatoru?

Izumio sam transformator koji stvara struju napona od 12 milijuna volta i s frekvencijom od više milijuna treptaja u sekundi.

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