NIKOLA MIRKOVIC

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Education

School of Electrical Engineering, University of Belgrade | Belgrade, Serbia   October 2020-July 2025

Bachelor of Science in Electrical & Computer Engineering

GPA: 9/10 (last semester), 8.5/10 (second year), 8.04/10 (cumulative)

Relevant coursework: *Quantum mechanics, Statistical physics, Solid state physical electronics, Quantum electronics, Microelectronics and nanoelectronics, Optical telecommunications, Electromagnetics, Fundamentals of physical electronics, Materials in electrical engineering, Probability and statistics, Theory of electric circuits, Signals and systems*

Professional Experience

University of Belgrade | Belgrade, Serbia   October 2022 - Present

Independent project

● Demonstration of light absorption and light scattering using smartphones and gradually diluted water ink, which lead to demonstrations of the experiment to the first-year students this school year
● Design and build of optical sensors for measuring liquid level in petrol barrels
● Programming a simulation of particle collisions, distributed by implementing Maxwell-Boltzmann statistics, in an 3D ideal gas using MATLAB

Designing coplanar waveguide-fed super wideband antenna | University of Belgrade, Serbia   April 2023 – June 2023

Mentored by professor Miodrag Tasić

● Design and fabrication of CPW-Fed Super-Wideband Antenna with Modified Vertical Bow-Tie-Shaped Patch for Wireless Sensor Networks
● Drawing the architecture of the antenna in Wipl-D Pro CAD, and later creating a quadrangular model in Wipl-D Pro
● Created for pollution detection within various Serbian cities

Other Activities

Oasis behind Boutazart Nait ounzar | Tagounite, Sahara, Morocco   January 2024–March 2024

Intern/ volunteer

● Rebuilding houses of the Berber people, destroyed after deserting the oasis due to climate change
● Digging wells and reconstructing the agriculture watering pools and irrigation systems

Chookalo Music Festival | Fruska Gora National Park, Serbia   December 2022 – May 2023

Co-Founder, Head Organizer

● Created an independent two-day music festival from scratch, in Fruska Gora National Park, with more than 200 people in attendance and 4 bands
● Lead team of 15 international volunteers
● Managed finance, marketing, music, art exhibit, catering, construction work and volunteers

Skills

Programming: Python, MATLAB, C, C++, Arduino, LabVIEW, Ansys Lumerical, CircuitMaker
Language: English, Serbo-Croatian, Spanish (limited proficiency), Russian (in progress)
Citizenship: Croatia (CRO)