

# Curriculum Vitae

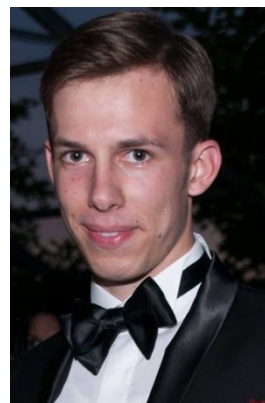
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## **Nikola Rašević**

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## **Education and Qualifications**

### **Faculty of Technical Sciences**

**Sept 2015 - present**

- Bachelor studies at Microelectronics.
- Competed in Basics of Electrical Engineering and won third award on Balkan Competition "Elektrijada".

### **Grammar School "Vuk Karadžić" in Loznica**

**Sept 2011 - June 2015**

- Natural Sciences and Mathematics Department
- Competed in Mathematics, Physics and Programming and won few awards on national competition.

### **Primary School "14. oktobar" Draginac**

**Sept 2003 - June 2011**

- Attended Regional Talent Centre and worked on small science papers in Informatics and Geography.
- Competed in Mathematics, Physics and Programming.

## **Experiences**

### **Petnica Science Centre, Valjevo, Serbia**

**April 2012 - Dec 2014**

- Attended Applied Physics and Electronics seminar.
- Learned how to solve problems in Mathematics, Physics and Astronomy using advanced methods.
- Worked on small investigation projects, for example: "Making oscilloscope using microcontroller", "Counting DC-motor RPMs, by measuring its current", "Localisation using triangulation", "Simulation of Coulomb's Law using C", "Simulation of double pendulum in Matlab".
- Used different types of equipment, like Oscilloscope, Multimeters, 3D Printer.
- Learned to write documentation and to write science paper.
- Worked in teams and small groups.

**Robotics Team "Memristor", Faculty of Technical Sciences Novi Sad****Sept 2015 - present**

- Developing autonomous robot for Eurobot competition.
- Working as main hardware and electronics developer.
- Main task is to design PCBs using Altium Designer, program microcontrollers (AVR and PIC) and assembly it in robot.
- Worked with different types of sensors and actuators, e.g. LIDAR, IR sensor, Colour sensor, Gyro, Servo motor, brushless and brushed DC motors.
- This school year, I am a team leader, and I should organise whole team and motivate them to work.

**Intern in Mikroelektronika, Belgrade, Serbia****Sept 2017 - Nov 2017**

- Worked on developing gamma radiation sensor using PIN diode.
- Developed *Mikro click* PCB in Altium Designer and tested it using Oscilloscope and Geiger-Muller counter.
- Programmed different types of microcontrollers for handling data from sensor.
- Wrote technical documentation.

**YOTA Ham Radio camp, London****Aug 2017**

- As a first class ham radio operator I am member of Radio Club "Novi Sad" and coordinator for YOTA (Youngsters On The Air) in Novi Sad, my call sign is YU1NRM.
- Took part in YOTA camp for young ham radio operators and participated in workshops for antenna building and radio transceiver assembling.
- My three member team from Serbia won first award in number of calls.
- During camp I passed British Ham Radio Exam and got British Licence.

**IEEE Student Member****Dec 2015 - present****IEEE Robotics and Automation Society Member****Jan 2018****Hobbies and Interests**

- Trained karate when I was ten, and now I am training Wing Chun.
- In free time I like to play guitar or practice shooting in shooting range.
- As a high school student I was an actor and practiced latino dance.
- I also like to watch old movies, photograph analog photos, listen music on LPs and read philosophy books.