

Đorđe Marjanović

EXPERIENCE

OCTOBER 2017 – PRESENT

YDrive inc.

Software engineer intern

YDrive is an R&D startup focusing on self-driving and AI for autonomous driving. I've been working with their Computer Vision and Semantic Navigation team on research regarding localization and mapping using semantically segmented images.

FEBRUARY 2013 – PRESENT

Petnica Science Center

Assistant

As of my first year as a high school student, I attended seminars for Technical Sciences, Applied Physics and Electronics and Computer Science. I've worked on larger projects such as "Magnetic levitation", "Optical angle measurement" and "Path reconstruction from binary sensors".

As of June 2016 I've been working as an assistant and mentor, where I held lectures and exercises to younger Petnica Attendants in the field of Applied Physics and Electronics and mentored different projects.

AUGUST 2014 - JUNE 2016

Applied Physics and Electronics club

Club Leader

Applied Physics and Electronics Club is a student organisation of First grammar school of Kragujevac, founded in 2013. With few of my friends we've started the club with the goal to introduce interesting engineering topics to students. I've mentored many projects such as: "Robot for playing rock-paper-scissors", "Model of an elevator", "Stabilizing a ball on a beam (Ball & Beam)", "Stabilizing a ball on a plate (Ball & Plate)", "Classifying notes of a piano", "Distance measurement using a laser", "Laser harp", "Egg drawing CNC", and many more.

OTHER PROJECTS

- Computer architecture simulations
- Simple neural networks (such as number recognition on MNSIT)
- Light position optimization
- Genetic algorithm and Particle swarm optimization (final-year highschool project)
- Chess and knot & crosses bot with minimax

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EDUCATION

2012 – 2016 **First Gymnasium of Kragujevac**
HIGH SCHOOL
Kragujevac, Serbia
2016 – 2020* **School of Electrical Engineering**
UNIVERSITY
Belgrade, Serbia

*Expected graduation year

COMPETITIONS

2018 **Elektrijada - Object Oriented Programming**
FOURTH PLACE
Budva, Montenegro
2016 **MTS Android application development**
THIRD PLACE
Belgrade, Serbia
2016 **Eurobot Nationals**
ATTENDANT
Novi Sad, Serbia
2015 **Physics Nationals**
SECOND PRIZE
Zrenjanin, Serbia

SKILLS

GREAT C/C++, Python, Java
GOOD MatLab, Simulink, Optimization algorithms, OpenCV, Git, VHDL, Math, Physics, Electronics
OK Assembly, 3D modeling and printing, \LaTeX , Bash, Machine Learning, HTML, CSS, SQL
LANGUAGES Serbian (*native*)
English (*fluent*)
French (*basic*)
INTERESTS Neural Networks, Computer Vision, Embedded Architectures, Digital Signal Processing, Mechanical and Automotive Engineering, Robotics, Linux, Dungeons & Dragons