Đorđe Marjanović

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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

Apllied 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

EDUCATION

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

*Expected graduation year

COMPETITIONS

2018	**AIBG - Building a game AI** FOURTH PLACE, *Belgrade, Serbia*
2018	**Elektrijada - Object Oriented Programming** FOURTH PLACE, *Budva, Montenegro*
2016	**MTS Android application developement** 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