

# 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 Jun 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