

# 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*

Petnica Science Center is an independent nonprofit organization for extracurricular, informal science education in Serbia. 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.

## COMPETITIONS

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

## 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

🏠 Jefimijina, 23  
📍 34000 – Kragujevac, Serbia  
📅 February 10. 1998  
☎ +381 62 315198

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✉ djordjemarjanovic998@gmail.com  
🌐 /djokjulapfe  
📘 /djokjula  
📺 /djokjula

## EDUCATION

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

\*Expected graduation year

## 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