DAVID ÁLVAREZ ROSA

Mathematics and Industrial Technology Engineering graduate

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- Olaz. Navarre 👑 October 10, 1998

EXPERIENCE

Visiting Researcher **Vector Institute**

🛗 September 2020 – June 2021

Full Time - 10 months

Toronto, Ontario

During my research thesis at the University of Toronto, I was admitted in Vector Institute, which allowed me to experience the world of research first-hand using their exceptional high-performance computing resources with the technical assistance of the development team.

Perception Engineer (LiDAR) **Driverless UPC**

September 2019 – February 2020

9 Barcelona, Catalonia

20 hours/week - 6 months

I have been part of the Perception section of Driverless UPC team, formed by undergraduate engineers in charge of the designing, manufacturing and testing of a fully autonomous car. LiDAR responsible and computer vision collaborator.

EDUCATION

MSc in Advanced Mathematics	GPA Unknown
National University of Distance Education - Faculty o	f Sciences
🛗 September 2021 – June 2023	Madrid, Madrid
Math-lover part-time student. Official study program for and enabling PhD.	ocused on research

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Bachelor's Thesis¹

University of Toronto - Dept. of Computer Science

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🛗 September 2020 – June 2021

Toronto, Ontario

GPA 10/10 (A+)

Conducted research on Artificial Intelligence for my senior Bachelor's Thesis at the Computer Science department of the University of Toronto under the supervision of Prof. Fidler and Prof. Giró.

BSc in Mathematics

Polytechnic University of Catalonia - Faculty of Mathematics

🛗 September 2016 – June 2021

9 Barcelona, Catalonia

GPA 8.12/10

A rigorous and proof-oriented course with a robust mathematical base, providing a solid knowledge in its applications (algorithms, computing). Honors or excellence in 9 subjects.

BEng in Industrial Technology Engineering GPA 8.03/10 Polytechnic University of Catalonia - School of Engineering

🛗 September 2016 – June 2021

9 Barcelona, Catalonia

Multidisciplinary and integrative vision of industrial engineering. Acquired knowledge and skills essential for future technological development. Honors or excellence in 14 subjects.

Scientific and Technological Baccalaureate Irabia-Izaga School

🛗 September 2014 – June 2016

9 Burlada, Navarre

GPA 9.47/10

Finished with honors obtaining 12.76/14 on University Access Exam.

★ david-alvarez-rosa ✓ blog.alvarezrosa.com

INSPIRATION

"The science of today is the technology of tomorrow."

SKILLS

Accustomed to working in a team, motivated and detailed in projects.

Programming languages.

Solid knowledge of:

C++ P	ython	Octav	ve/Matlab
Worked with:	Bash	R	PyTorch

Experience in web development:

HTM	IL CSS	Java	aScript	PHP
Others:	Linux	Git	ROS	ETEX

LANGUAGES

Spanish

Mother tongue.

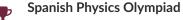
English

C1 level accreditation (August 2017).

Catalan

Very good understanding of the language. Intermediate level in oral and written expression.

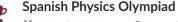
AWARDS



🛗 April 2016 Seville, Andalusia

Silver medal in the national phase.





🛗 March 2016 **9** Pamplona, Navarre

Winner of the local phase.



Spanish Mathematical Olympiad **9** Pamplona, Navarre

Second position in the local phase.



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COURSES

Blockchain & Financial Technolo The University of Hong Kong	bgy 24 hours ∰ June 2021 - Present
Deep Learning Specialization deeplearning.ai	80 hours ∰ June 2021 – Present
CNNs for Visual Recognition ² Stanford University Completed all coursework.	10-week course ∰ October 2020 - December 2020
Machine Learning Stanford University – Coursera	60 hours ∰ August 2020 - October 2020
Mathematical Game Theory Polytechnic University of Catalonia – Game theory is the study of mathemat among rational decision-makers.	
Machine Learning & Deep Learr Polytechnic University of Catalonia -	0

PROJECTS

Neural Network Implementation ⁴ Personal Project	25 hoursSeptember 2019 - October 2020
Robotic Arm – Tic Tac Toe ⁵ Polytechnic University of Catalonia – So January 2019 – June 2019	75 hours chool of Engineering
Virtual animation of robotic arm able to	play TicTacToe and never lose.
Simplex Algorithm in C++ ⁶ Polytechnic University of Catalonia – Fa October 2018 – December 2018	15 hours aculty of Mathematics
Personal Website & Private Email Personal Project Website design and configuration of em	🛗 August 2018 – Present
Study Schedule Generator ⁷ Polytechnic University of Catalonia – Se	60 hours chool of Engineering

🛗 January 2018 – June 2018

Study schedule adapted to student performance (data analysis).

INTERESTS & PERSONAL STATEMENT

Ambitious, hardworking and open-minded leader with a passion for Maths, Artificial Intelligence and Engineering. I am an outgoing person, with a highly analytical mindset, who likes to debate and learn from others. I have the ability to motivate those who surround me in order to provide meaningful solutions for real problems, with a goal-oriented approach.

Interested in areas of knowledge that involve my two fields of studies in conjunction, such as Artificial Intelligence, Robotics and Data Analysis. Actively seeking for job opportunities at a leading company in order to get real-world experience and grow as a professional.

OTHERS

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Former Violinist	
🛗 2008 - 2015	

Pamplona, Navarre

I played the violin in the conservatory in its first courses.

	Mathematics Tutor Academic classes of support and prepa- ration for the Mathematical Olympiads.	
.	Food Gatherer12014 - 2016Pamplona, Navarre	
Food	collection for the needy (volunteer).	
٨	Linux User Years of use of Linux distributions (Arch, Debian and Ubuntu).	
	System Administrator Administrator of personal VPS: data synchronization between devices, web- site, email, personal Git server.	
•	Athlete Regular sportsman, runner and ex- triathlete.	
æ	Driving License Driving License October 2017 Pamplona, Navarre	
Spani	ish driving license (B).	
FO	OTNOTES	
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For the accessibility of the document, the most relevant links are included.

- 1. recomprehension.com
- 2. cs231n.stanford.edu
- 3. sites.google.com/view/dlcfis2019/home
- 4. gitlab.com/david-alvarez-rosa/neuralnetwork
- 5. david.alvarezrosa.com/tres-en-raya
- 6. gitlab.com/david-alvarez-rosa/simplexalgorithm
- 7. david.alvarezrosa.com:5000

