

DAVID ÁLVAREZ ROSA

Mathematics and Industrial Engineering student

@ david@alvarezrosa.com
david.alvarezrosa.com

+34 647 13 39 30
gitlab.com/DavidAlvarez

C/ Agrupación Olaz nº 16, Bajo
October 10, 1998

Olaz, Navarre

EDUCATION

Degree in Mathematics 240 ECTS

Polytechnic University of Catalonia – FME

September 2016 – Present Barcelona, Catalonia

- Currently in fourth grade.

Rigorous course with a robust mathematical base and providing a solid knowledge in its applications (algorithms, computing).

Degree in Industrial Technology Engineering 240 ECTS

Polytechnic University of Catalonia – ETSEIB

September 2016 – Present Barcelona, Catalonia

- Currently in fourth grade.

Multidisciplinary and integrative vision of industrial engineering. Acquired knowledge and skills essential for future technological development.

Scientific and Technological Baccalaureate 2 years

Irabia-Izaga school

September 2014 – June 2016 Burlada, Navarre

- Final grade: 9,47/10.
- University access exam grade (*Selectividad*): 12,76/14.

Compulsory Secondary Education 4 years

Irabia-Izaga school

September 2010 – June 2014 Burlada, Navarre

COURSES

Game theory 20 hours

Polytechnic University of Catalonia – CFIS

April 2019 Barcelona, Catalonia

Game theory is the study of mathematical models of strategic interaction among rational decision-makers. It has applications in fields such as economics, logic and computer science.

Introduction to Machine Learning & Deep Learning 20 hours

Polytechnic University of Catalonia – CFIS

January 2019 Barcelona, Catalonia

- Basic principles of machine learning and classical methods.
- Introduction to deep learning from both an algorithmic and computational point of view.
- Study of its applications to reinforced learning and the analysis of multimedia content.

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++ Python Octave/Matlab

Notions of: AMPL Bash

Experience in web development:

HTML CSS JavaScript PHP

Others: Linux Git \LaTeX

LANGUAGES

Spanish ●●●●●

Mother tongue.

English ●●●●●

C1 level accreditation in August 2017.

Catalan ●●●●●


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

AWARDS

 **Spanish Mathematical Olympiad**

January 2016 Pamplona, Navarre

Second position in the local phase.

 **Spanish Physics Olympiad**

March 2016 Pamplona, Navarre

Winner of the local phase.

 **Spanish Physics Olympiad**

April 2016 Seville, Andalusia

Silver medal in the national phase.

PROJECTS

Driverless – Motorsport

20 hours/week

Polytechnic University of Catalonia – ETSEIB

📅 September 2019 - Present

I'm part of the Perception section of Driverless UPC team, which is a team formed by undergraduate engineers in charge of the designing, manufacturing and testing of a fully autonomous car that will participate in national and international competitions between universities.

Robotic Arm – Tic-tac-toe

75 hours

Polytechnic University of Catalonia – ETSEIB

📅 January 2019 - June 2019

Creation of a virtual animation of a robotic arm intelligently playing the game of Tic-tac-toe.

Email server

15 hours

Personal project

📅 August 2018 - September 2018

- Configuration of a modern and secure personal email server based on free software (Postfix and Dovecot).
- Supports opportunistic TLS and IMAP access.

Study Schedule

60 hours

Polytechnic University of Catalonia – ETSEIB

📅 January 2018 - June 2018

Creation of a customized study schedule generator adapted to students, through data analysis.

OTHERS

🎵 Former violinist

📅 2008 - 2015

📍 Pamplona, Navarre

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

👥 Tutor

Academic classes of support and preparation for the Mathematical Olympiad.



Linux user

Years of use of Linux distributions (Arch, Debian y Ubuntu).



System Administrator

Administrator of personal Virtual Private Server: data synchronization between devices, web, email, personal Git server.



Athlete

Regular sportsman, runner y ex-triathlete.



Driving license

📅 October 2017

📍 Pamplona, Navarre

Spanish car driving license (B).

INTERESTS

