

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 L^AT_EX

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

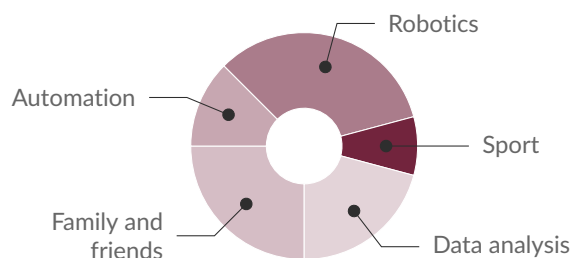
60 hours

Polytechnic University of Catalonia – ETSEIB

📅 January 2018 - June 2018

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

INTERESTS



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).