DAVID ÁLVAREZ ROSA

Estudiante de Matemáticas e Ingeniería Industrial

@ david@alvarezrosa.com
📞 +34 647 13 39 30
✉ C/ Agrupación Olaz nº 16, Bajo
📍 Olaz, Navarra
🔗 david.alvarezrosa.com
gitlab.com/DavidAlvarez
🎂 Octubre 10, 1998

EDUCACIÓN

Grado en Matemáticas — 240 ECTS
Universidad Politécnica de Cataluña – FME

📅 Septiembre 2016 – Presente   📍 Barcelona, Cataluña

- Cursando 4º curso actualmente.

Robusta base teórica matemática y sólidos conocimientos en sus aplicaciones (algoritmos, computación).

Grado en Ingeniería en Tecnologías Industriales — 240 ECTS
Universidad Politécnica de Cataluña – ETSEIB

📅 Septiembre 2016 – Presente   📍 Barcelona, Cataluña

- Cursando 4º curso actualmente.

Visión multidisciplinar e integradora de las ingenierías industriales. Adquiridos conocimientos y habilidades imprescindibles para el desarrollo tecnológico futuro.

Scientific and Technological Baccalaureate — 2 years
Irabia-Izaga school

📅 Septiembre 2014 – June 2016   📍 Burlada, Navarra

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

Compulsory Secondary Education — 4 years
Irabia-Izaga school

📅 Septiembre 2010 – June 2014   📍 Burlada, Navarra

COURSES

Game theory — 20 hours
Universidad Politécnica de Cataluña – CFIS

📅 April 2019   📍 Barcelona, Cataluña

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
Universidad Politécnica de Cataluña – CFIS

📅 January 2019   📍 Barcelona, Cataluña

- 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

Universidad Politécnica de Cataluña – ETSEIB

📅 Septiembre 2019 - Presente

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

Universidad Politécnica de Cataluña – 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 - Septiembre 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 Cataluña – 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 extriathlete.

🚗 **Driving license**

📅 October 2017   📍 Pamplona, Navarre

Spanish car driving license (B).