Alvaro Diez

Curriculum Vitae

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□ alvarodiezgp@gmail.com
□ github.com/AlGepe

Pre - University Studies

2008-2010 Bachillerato Español, Instituto Santa Clara, Santander, High School Studies.

• Final grade: 8.1/10 Including selectividad¹

2008-2010 International Baccalaureate, Instituto Santa Clara, Santander, High School

Studies

Studied simultaneously with "Bachillerato" and completed in two years following High

School's schedule

Final grade: 31 pt

- Including 6/7 in Physics

University Studies

2010-2017 **Degree in Physics**, *Universidad de Cantabria*, Santander, *Final Grade*. 7.45/10

Remarks:

- 2012-2013 Erasmus in Bergen (Norway)
- o Bachelor's thesis:

Title Fast simulation of transients in irradiated silicon detectors

Supervisor Marcos Fernández García (UC-CERN)

Additional Courses

February Introduction to Machine Learning, Udacity ud120.

2017-Current

February Introduction to Parallel Programing (CUDA), Udacity cs344.

2017-Current

Experience

Laboral

June- Internship at CERN, CERN, Geneva, Member of the PH-DD-SSD group at CERN September , Main developer of TRACS, a fast simulator for irradiated silicon detectors in C++. (2015) Summer Student Program

National university-entry exam

Pebruary- October CERN for gas control systems, In charge of controlling gas mixtures inside selected gaseous CERN-LHC detectors and providing technical assistance to researchers in gas-related matters.

Technical Student Program

Vocational

2013-current Founder and member of the Physics Mentor Group, Santander,

The Physics Mentor Group is a group founder by students and aimed to help students in their first and second year at university.

The group has collaborated with IFCA and UC in events like "Researcher's nite" and also organized their own.

Sports

2007-current Handball Referee, 8 years of handball refereeing

- , Highest Category: National Referee (2011-2014)
- , Refereed several National Championships and two Granoller's Cups (International Tournament).
- 2009–2010 Handball coach of a kids team.

Journalism

2012–2013 Android Blog Journalist, El Androide Libre.

One year work as journalist for one of the top Spanish weblogs about Android

2014-current Science Blog Journalist, Medciencia.

Currently working as physics journalist for the Medciencia weblog

Languages

English C1 Level Cambridge Certificate in Advance English obtained in May 2010

French Basic Level Studied french at school 2004-2008 & lived in France for 11 months

Computer skills

Software C++/C, Java, gdb, UML, Matlab, ROOT, Intermediate Level, Experience Development developing software (mainly physics simulators and physics oriented software) in the

three aforementioned languages and UML diagrams., Experience using $gd\dot{b}$ (and

ddd) debugger.

Knowledge of HTML, CSS, JavaScript, Python, bash scripting, FORTRAN, AWK, SED, MySQL and Cuda.

Operative Linux, Mac OSX, Windows, Intermediate-Advanced Level,

Systems Fluent usage of command line interface.

Office Suites MSOffice, LibreOffice, LibreOf

personal work and throughout the studies.

Text Editors Vim, Sublime Text, Intermediate Level, Great experience using vim and Sublime

Text 3 as text editors for software development and text processing.

Basic knowledge of GNU-Emacs, Less, Nano...

Additional Information

Driving License Category: B

Appendix with links to relevant information

References and Publications

Academic

- Personal GitHub (https://github.com/AlGepe)
- Publication at CERN Developing a fast simulator for irradiated silicon detectors (http://cds.cern.ch/record/2057142)
- Final talk on project at CERN: TRACS radiation upgrade v2.0(https://indico.cern.ch/event/447412)
- Talk at Summer Student Sessions at CERN Developing a fast simulator for irradiated silicon detectors
- Public Gas Monitoring web: Test Gas Monitoring
- Bachelor thesis:

Personal repository(tex format): https://github.com/AlGepe/TFG

Journalism

Articles featured in the main cover of Meneame.

- o Graphene Supercapacitors: batteries will charge in 30 seconds and last all day
- Why does blue LED deserve a Nobel Prize in Physics and green LED doesn't?
- The story of the "invisible monster" that wrecked trains in Siberia
- How to think in 11 dimensions and not die in the process