

Alvaro Diez

Curriculum Vitae

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📄 github.com/AlGepe

University Studies

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

7.45/10

Remarks:

- 2012-2013 Erasmus in Bergen (Norway)

- Bachelor's thesis:

Title *Fast simulation of transients in irradiated silicon detectors*

Supervisor Marcos Fernández García (UC-CERN)

Experience

Work-wise

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

Summer Student Program

February-October (2016) **Internship at CERN**, *CERN, Geneva*, Member of the EP-DT-FS-Gas group, Controlling gas mixtures inside selected gaseous detectors from the LHC and providing technical assistance to researchers in gas-related matters.

Technical Student Program

July 2018 - October 2022) **Web content writer**, *Omni Calculator, Krakow*, Calculator creation and on boarding,

2022) Creating new online calculators (including text write-ups and calculator coding) as well as creating documentation and onboarding workshops for new hires.

October 2020 - October 2022) **Audiovisual manager**, *Omni Calculator, Krakow*, Managing a small team producing audiovisual content for Omni Calculator, mostly aimed at YouTube., Main tasks included hosting videos, shooting, script-writing, video editing....

Vocational

2013-2017 **Founder and member of the Physics Mentor Group**, *Santander*, Group founded by 4 students to help new university students and publicise science.

Journalism

2012–2016 **Blog Journalist.**

- *El Androide Libre* One year as a journalist for El Androide Libre, currently part of El Español's portfolio
- o - *Medciencia* Two years as a journalist for Medciencia, currently part of El Español's portfolio

Sports

2007–2017 **Handball Referee**, *8 years of handball refereeing*,
Highest Category: National Referee (2011-2014),
Refereed several National and International Championships u-18.

2009–2010 **Handball coach of a kids team.**

Computer skills

Software Development	C/C++, Python, git Intermediate knowledge with experience in data analysis Java, gdb/ddd, bash, Matlab, UML, ROOT, Cuda, MPI, OpenMP Basic knowledge with experience
Operative Systems	Linux, OSX, Windows Intermediate/Advance and fluent usage of command line interface as well as remote work (e.g.: ssh, sshfs...)
Office Suites	MS Office, LibreOffice, L^AT_EX Intermediate level with experience mainly in Latex and Excel
Text Editors	Vim Intermediate/Advance with extended experience as main editor including IDE-like plugins

Languages

English	C1 Level	<i>Cambridge Certificate in Advance English obtained in May 2010</i>
French	Basic Level	<i>Studied french at school 2004-2008 & lived in France for 11 months</i>

Additional Information

Driving License *Category: B*

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.

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 (Hyperlinked)

- Published articles on El Español