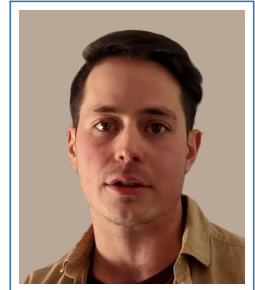


# Alvaro Diez

Avenida del Faro 228  
39170 Ajo  
Spain  
☎ +34 690 603 466  
✉ alvarodiezgp@gmail.com



## Notable Pre-University Studies

2008-2010 **International Baccalaureate**, *IES Santa Clara*.

## University Studies

2010-2017 **Degree in Physics**, *Universidad de Cantabria (UC)*, Santander.

### Remarks:

- 2012-2013 Erasmus in Bergen (Norway)
- **Bachelor's thesis:** *Fast simulation of transients in irradiated silicon detectors*
- **Publication:** *TRACS: A multi-thread transient current simulator for [...]*

## Work Experience

### Omni Calculator

2023 - Now **Translation**, English to Spanish translation.

Additional SEO optimisation of older texts, mass mailing campaigns and general improvement and automation tasks

2022 - 2023 **Marketing**, Marketing specialist with emphasis on mass mailing and social media copywriting.

Additional development of automation tools for the department.

2020 - 2022 **Video Production**, Full creation of science communication and explanation videos for YouTube and company promotion.

Additional conceptual and video support for social media

2018 - 2020 **Calculator creation and copywriting**, Creation of calculators .

Additional promotion of calculators (Interviews with Nature, Forbes, national TV...)

### CERN

2015 **Internship at**, *CERN, Geneva*, Main developer of the TRACS, simulator for irradiated silicon detectors.

2016 **Internship at**, *CERN, Geneva*, In charge of controlling gas mixtures inside selected gaseous CERN-LHC detectors and providing technical assistance..

### Journalism

2012-2014 **Android Blog Journalist**, *El Androide Libre*.

News and tutorials specialist for El Androide Libre (currently El Español)

- 2014–2017 **Science Blog Journalist**, *Medciencia*.  
 Sciene communication for Medciencia, (currently El Español)  
[Community](#)
- 2013-2017 **Founder and member of the Physics Mentor Group**, *UC, Santander*.  
[Sports related](#)
- 2007-2015 **Handball Referee**, *8 years of handball refereeing*,  
 Highest Level: Primera División (National) (2011-2014).
- 2009–2010 **Handball coach of a kids team**.

## Hard skills

- English **C1 Level** *Cambridge Certificate in Advance English obtained in May 2010*
- Computer skills **Intermediate level**, Used to working with different operating systems, office suites and text editors (including VIM and other IDEs)..  
**Basic-Intermediate level**, Experience with coding in different languages (C++, python, javascript).
- Often used for creating tools to automate daily repetitive tasks  
**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...

## Soft skills

- Problem solving **High level**, Experienced and trained in finding new solutions to problems thanks to the multidisciplinary background and critical thinking..  
 Very eager to improve processes and workflows
- Communication **High level**, Experience in adapting communication style based on the context and making sure everyone is on the same page.  
 Keen and experienced in public speaking and debating.
- Group leading **High level**, Great at leading and motivating multicultural and multidisciplinary teams.  
 Experience leading small multicultural and interdisciplinary groups
- Organization **Intermediate level**, Strong ability to create effective organisational systems and workflows.  
 Difficulty staying organised and dealing with bureaucracy

# 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  
(<http://cds.cern.ch/record/2042184>)
- Bachelor thesis (tex format):  
<https://github.com/AlGepe/TFG>
- Publication:  
"TRACS: A multi-thread transient current simulator for micro strips and pad detectors"  
(<https://www.sciencedirect.com/science/article/pii/S0168900218317856>)

### Journalistic Publications

- Spanish articles published on Android news and science communication  
([https://www.elespanol.com/autor/alvaro\\_diez/](https://www.elespanol.com/autor/alvaro_diez/))
- Calculator featured on Nature  
(<https://www.nature.com/articles/d41586-019-03889-3>)
- Calculator featured on Forbes  
(<https://www.forbes.com/sites/jeanettehurt/2019/08/12/warsaw-physicist-creates-calculator-for-cooling-drinks>)
- Example of the calculator featured on national TV  
([https://www.antena3.com/programas/espejo-publico/noticias/omni-calculator-la-app-que-te-muestra-tu-turno-de-vacunacion-contra-el-coronavirus\\_202101216009654019cdca0001d04e08.html](https://www.antena3.com/programas/espejo-publico/noticias/omni-calculator-la-app-que-te-muestra-tu-turno-de-vacunacion-contra-el-coronavirus_202101216009654019cdca0001d04e08.html))