

JUAN PEDRO BOLÍVAR PUENTE

SINUSOID.ES
RASKOLNIKOV@GNU.ORG
+49 179 6422022
MAYBACHUFER 41
12047 BERLIN, GERMANY

LANGUAGES

NATIVE	SPANISH
BUSINESS	ENGLISH
BASIC	GERMAN

EDUCATION

- 2006–2011 **Ingeniería Informática**
University of Granada, Spain
GPA: A
- 2009–2010 **Erasmus exchange**
Åbo Akademi, Finland
- 2005 **Course in Advanced Admin of GNU/Linux systems**
University of Huelva

AWARDS

- 2008 **Honour distinction of the school of software engineering**
University of Granada
- 2008 **Concurso Universitario de Software libre** First prize
- 2006 **Iberoamerican Contest in Informatics** Gold medal
- 2006 **Spanish Olympiad in Informatics** First place
- 2006 **Spanish Olympiad in Mathematics** Bronze medal

PROGRAMMING

C++ and Python expert.
ES6, Coffee, Clojure, Haskell, C, Java, Oz, Prolog

TOOLS

Git, Bzr, Emacs, XMonad, Debian, GNU, Linux, Scrum

DESIGN

HTML5, CSS3, Inkscape, Scribus, The Gimp

software engineer with focus on music and interactive systems, architecture, user experience and design, programming languages, libre software and, ultimately, building systems and organizations that work for human beings ●

EXPERIENCE

2011–2016 SOFTWARE ENGINEER ABLETON

- Worked on Push, a digital hardware music instrument, Live, a leading digital audio workstation with millions of users, and research efforts to devise new products.
- Designed and built new systems and rearchitected old legacy systems.
 - Worked together with designers and UX experts on user facing features.
 - Mentored developers in modern C++, Python and QML.
 - Member of architecture team overseeing and reviewing the evolution of the architecture over multiple teams of 30+ developers.
 - Bootstrapped the Open Source Guild, helping teams across the company (legal, business, engineering) understand and implement open source, in an ongoing effort to liberate multiple components.
 - Represented Ableton at tech conferences, music hackathons and interviews.

2011 TEACHER

INSTITUTO DE ASTROFÍSICA DE ANDALUCÍA

Tought a 25 hours intensive course in "Advanced Python" for astrophysics researches and software developers working at the institute. The course included concepts of object-oriented and functional programming, meta-programming, interfacing with C, testing automation and quality assurance, numeric computation, graphical interfaces with GTK and Glade, the web and more:
www.sinusoid.es/python-avanzado

2009–2011 INTERN

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF GRANADA

Worked on a "Teaching Innovation Project" and as assistant in the course of "Methodology of Computer Programming". Developed Moodle libre plugins to adapt it to the department processes and idiosyncracies. We built new algorithm visualizations, published in a collaborative and interactive ebook format through a new Moodle plugin, as described in our conference paper.
www.nongnu.org/cvg-moodle

SPEAKING

- 2015 **Share the code: open source music tech** Loop conference, Berlin
- 2015 **Transducers: from Clojure to C++** CppCon, Bellevue, WA
- 2014/15 **Modernize your C++** Berlin C++ Meetup
- 2014 **C++ template metaprogramming** Ableton Dev Salon
- 2013/15 **The Ableton Live Python API** SXSW Music Hack. MIDI Hack I (Stockholm), and II (Berlin), PyLadies Berlin.
- 2010 **Desarrollo rápido de videojuegos con el panda y la pitón** Hackea y Lucha II, Granada, Spain.
- 2009 **Desarrollos sobre Moodle para la docencia de la informática** FINDTI. Vigo, España
- 2009/10 **Introducción al Software Libre** I y III Jornadas Contra el Pensamiento Único, Facultad de Ciencias Políticas, Granada
- 2009 **ANSI C modular: librerías, polimorfismo y plugins en C** Hackea y Lucha I. Granada, Spain
- 2008 **GNU Psychosynth** Open Source World Conference (Málaga), Hackinvisible (Málaga), GNU Hackers Meeting (Bristol), Arquimia Music School (Málaga), Jornadas Comunidad Mórfeo (Granada), Territorios Festival (Sevilla), etc.

PUBLICATIONS

- 2009 **GNU Psychosynth: A framework for modular, interactive and collaborative sound synthesis and live music performance** Master's thesis
www.psychosynth.com/misc/pfc.pdf
- 2009 **Desarrollos sobre Moodle para la docencia de la informática** Juan Pedro Bolivar Puente, J. Fdez-Valdivia, J. Martinez-Baena, A. Blanco, J. A. Garcia, A. Garrido y R. Rodriguez-Sanchez, FINDTI Vigo, España.
ISBN: 978-84-8158-463-9
- 2008 **GNU Psychosynth: Un sintetizador de audio por Software Libre** Juan Pedro Bolívar Puente, Revista Novática, 195.
ISSN: 0211-2124

LIBRE SOFTWARE

As a developer and advocate of libre software, I've released and contributed to multiple libre projects. Including maintaining some GNU packages. I also co-founded the techno-political "Hacklab Colina Roja" in Granada.

More in the online portfolio:

<http://sinusoid.es/do>