Arnaud Durand

Born on 24 may 1989 – Citizenship: French (C permit)

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OVERVIEW

> Polyvalent education in both HES (BSc.) and Universities (Msc.)

> Good knowledge of object-oriented programming

> Serious about software quality

> Versatile and quick to adapt to new technologies

> Familiar with collaborative development and agile methodologies

> Self-learning person and autonomous

EDUCATION

BENEFRI, University of Fribourg (CH-1700 Fribourg)

Msc., Computer Science (distributed system specialization), Sept. 2012–June 2015

- ‣ Pre-Master complement Sept. 2012–June 2013 (2 semesters)
- ‣ Master thesis: Distributed wideband software-defined radio receiver for heterogeneous systems

University of Applied Science Western Switzerland (CH-3960 Sierre)

BSc., Business Information Technology, Sept. 2009–June 2012

- ‣ Bachelor thesis: 3D visualization of room temperatures gradients from a building
  the resulting tool is used in a production environment by trilogis.ch

La Cité Gymnasium (CH-1014 Lausanne)

Swiss Matura Diploma, Sept. 2008–June 2009

Business School ECCGs (CH-1870 Monthey)

Commercial diploma, Sept. 2004–June 2008

WORK EXPERIENCE

Human-IST (UNIFR)

Junior researcher, Dec. 2015–Apr. 2016

- ‣ Hardware and software development of embedded system with various sensors
- ‣ Experience with physical product creation, PCB design, IoT

tokiwi (tokiwi-services.ch)

Project manager, July 2015–May 2016

- ‣ Business applications, web-crawlers and web applications development
- ‣ Web-crawler development

businesstransfer.ch

Web developer, Mar. 2014–Oct. 2015

- ▸ Co-development of businesstransfer.ch (web selling platform)
- ▸ Experience with Django, ORM, database management

trilogis (trilogis.ch)

Freelance developer, 2012–2015 (periodic)

- ▸ Extension of a 3D visualization tool
- ▸ Port from Flash to WebGL

Tourist office (CH-1882 Gryon)

Executive assistant, Juy. 2007–June 2008

- ▸ Management, events

PUBLICATIONS

Conference proceeding

Durand, Arnaud, et al. *"BitWorker, a Decentralized Distributed Computing System Based on BitTorrent."* Wired/Wireless Internet Communications. Springer International Publishing, 2015. 151-164.

Alyafawi, I., Durand, A., Braun, T. *"High-Performance Wideband SDR Channelizers"* Wired/Wireless Internet Communications. Will be published in 2016 (accepted).

SKILLS

Languages: Python, C#, C/C++, Java, HTML/CSS/JavaScript, SQL

Frameworks & libs: Django, .NET/Mono, Unity3D, GNU Radio, ZeroMQ, OpenCL, Processing, Scrapy

Familiar with **UNIX** systems, use Linux Mint (Ubuntu) on a daily basis

LANGUAGES

French: French native speaker, good writing skills.

English: Professional working proficiency (B2)

INTERESTS

General: Science, hardware and software hacks, embedded systems, cryptocurrencies

Hobbies: Cinema, Arduino, multicopters, rock concerts, craft beer tasting

REFERENCES

Denis Lalanne, *associate professor in informatics department*

- ▸ University of Fribourg, CH-1700 Fribourg

David Wannier, *head of business information technology department*

- ▸ HES-SO Valais, CH-3960 Sierre

Gilles Beljakovic, *co-director and co-owner*

- ▸ Trilogis sàrl, CH-2024 Saint-Aubin-Sauges

Christan Parisod, *executive*

- ▸ Tourist office, CH-1882 Gryon