

Jakob Odersky | Curriculum Vitae

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Education

Gymnase de Burier **Burier**
Matura, Graduation with honorable mention and prizes in mathematics and physics 2007–2010
Including a one-year exchange in Giessen, Germany at Liebig Schule.

Ecole Polytechnique Fédérale de Lausanne **Lausanne**
Bachelor 2010–ongoing
Prospective Bachelor in physics

Ecole Polytechnique Fédérale de Lausanne **Lausanne**
CS Pathway 2013–ongoing
Pathway courses with aim of future Master studies in computer science.

Experience

Vocational.....

Crossing-Tech SA **Lausanne**
Developer 2011
Project involving systems integration, specifically the implementation of a data transfer process from one storage technology to another.

Crossing-Tech SA **Lausanne**
Consultant 2011–2015

- Development and maintenance of the company's website.
- Implementation of a custom, version-controlled content management system.

Miscellaneous.....

Hobby Developer 2009–ongoing

- Implementation of a physics engine, as my school's final year project.
- Development of a C and Scala library for low-level communication to actor based systems.
- Creating and managing a custom server on an ARM development board
 - tweaking the Linux kernel
 - self-made distribution
 - hardening and creation of a public key infrastructure
 - various server administrative tasks
- Building of a real-time kernel for embedded systems.
- Custom hardware gadgets.
- Implementation of a scientific calculation utility library, with a focus on compiling specialized commands from Scala to Matlab.

Building a Drone from ground-up

2014–2015

- Engineering a quadrotor.
- Designing a controller circuit board.
- Porting a real-time operating system and flight-stack to a new processor.
- Implementation of virtual cockpit ground-control software.

Languages

German: fluent, European language level C2

Mothertongue

English: fluent, European language level C2

Cambridge Certificate of Proficiency

French: fluent, European language level C2

School and University, 16+ years

Computer skills

Operating Systems: Advanced knowledge and experience in GNU/Linux, especially Debian.

Programming Languages: Scala, C, C++, JavaScript, Shell, Java, Python

Web Development: “Play!” framework, ScalaJS, AngularJS, Bootstrap

Source Control: Git, SVN

Office and Design Tools: LaTeX, Inkscape, KiCad, OpenSCAD

Other: In-depth experience with GnuPG

Interests

Tennis: Played a few years in a club, continuing for fun.

Dancing: Various dances, ranging from Standard to Salsa.

Computers and Electronics:

- Developing software and hardware for my needs.
- Open-source software enthusiast.

Brewing: Self-made beer.

Outdoors: Hiking.