

Jakob Odersky | Curriculum Vitae

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Education

Gymnase de Burier	Burier
<i>Matura, Graduation with honorable mention and prizes in mathematics and physics</i>	<i>2007–2010</i>
Including a one-year exchange in Giessen, Germany at Liebig Schule.	
Ecole Polytechnique Fédérale de Lausanne	Lausanne
<i>Bachelor</i>	<i>2010–2015</i>
Prospective Bachelor in physics	
Ecole Polytechnique Fédérale de Lausanne	Lausanne
<i>CS Pathway</i>	<i>2013–2015</i>
Pathway courses for Master studies in computer science.	

Experience

Vocational.....

Crossing-Tech SA	Lausanne
<i>Developer</i>	<i>2011</i>
Project involving systems integration, specifically the implementation of a data transfer process from one storage technology to another.	
Crossing-Tech SA	Lausanne
<i>Contract Developer</i>	<i>2011–2014</i>
<ul style="list-style-type: none">Development and maintenance of the company's website.Implementation of a custom, version-controlled content management system.	

Miscellaneous.....

Hobby Developer	2009–ongoing
<ul style="list-style-type: none">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<ul style="list-style-type: none">tweaking the Linux kernelself-made distributionvarious server administrative tasksBuilding 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

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.