

# Jakob Odersky | Curriculum Vitae

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## Education

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

## Experience

### Vocational.....

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

### Miscellaneous.....

<b>Hobby Developer</b>	2009–ongoing
<ul style="list-style-type: none"><li>Implementation of a physics engine, as my school's final year project.</li><li>Development of a C and Scala library for low-level communication to actor based systems.</li><li>Creating and managing a custom server on an ARM development board<ul style="list-style-type: none"><li>tweaking the Linux kernel</li><li>Debian packaging</li><li>various server administrative tasks</li></ul></li><li>Building of a real-time kernel for embedded AVR systems.</li><li>Custom hardware gadgets.</li><li>Implementation of a scientific calculation utility library, with a focus on compiling specialized commands from Scala to Matlab.</li></ul>	

- 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

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**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

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

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

**Libraries and Frameworks:** Akka, Slick, OpenGL

**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

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**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.