

# Jakob Odersky | Curriculum Vitae

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## Education

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**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

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### 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* *2011–2014*

- 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

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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, 16+ years*

## Computer skills

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**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

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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.