

# SvenBorden

Student

## Contact

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📅 12th oct. 1995

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## Informatics

♥ C#, C++, C, Java

📄 HTML5, CSS3,  
</> Java, .NET & Javascript

🐧 Linux & Shellscript  
🔧 Optimisation &  
Parallelization

## Langues

*read, speak, write* French  
*read, speak, write* English  
*read, speak, write* German  
*speak* Chinese

## Experiences

### Job - internship

- summer 2014 **Trainee** Kudelski Security, Cheseaux-sur-Lausanne  
Prototype of a Unmanned Air Vehicle working on 4G-LTE communication, controlled via a smartphone
- summer 2013 **Research in computer science** University Lafayette, Louisiana, USA  
Implementation on Javascript Code Parallelization
- End 2012 **Employee** Bugnard SA, Lausanne  
Order picking

### Exposition - Contest

- Sept. 2014 **Exposition ESE Milset 2014** University Zilina, Slovaquie  
Exposition for the prototype of a unmanned ground vehicle which was developed in a previous contest
- May 2014 **National contest "La science appelle les jeunes"** EPFL, Lausanne  
Presentation of a drone build during a school project (special prize Metrohm)

## Projects

- EPFL Project **Another Bubbles' Concept** Semester project  
Optimise a design according to client specification chart, CAD (CATIA V5). Knowledge in basic machine design and machine elements
- Kudelski **4G-LTE drone** Swiss army  
Mandated to build and code a quadcopter with a full control over 4G-LTE communication. Onboard sensor and camera telemetry controlled via smartphone
- App dev. **Multiple choice app generator** Anatomie UNIL  
Application used by medical school student that provide a wide range of multiple choices question in order to prepare an exam
- High school **Unmanned Ground vehicle for scratch** Metrohm Prize at SJF 2014 in Switzerland  
Wireless controlled vehicle over 4G-LTE or WIFI with onboard live streaming camera

## Diploma - Education

- Since 2015 **Microengineering** School of Engineering  
Ecole Polytechnique Fédérale de Lausanne
- 2014 - 2015 **Medical School** Faculty of biology  
University of Lausanne
- 2001 - 2014 **Piano Studies** Conservatory of lausanne  
Many shows and prizes, Certificate obtained in 2014
- 2002 - 2009 **Solfège studies** Conservatory of Lausanne  
Certificate obtained in 2010

# Hobbies

Sports

**Badminton, tennis, beach-volley**

Team sport

DIY

**All kind of hand made projects**

Computer science

**User interface design, optimisation**

Autonomous system

Genetic algorithms

Art and culture

**Piano, books**