

Lucas Grosjean
Engineering Student

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French
Driver License B



EDUCATION



- From October 2016 to August 2017
MOOC «Nonlinear Optics»
Ecole Polytechnique
- From October 2016 to January 2017
MOOC «Silicon Photonics Design, Fabrication and Data Analysis»
Successfully completed with the maximal grade
University of British Columbia
- From April 2015 to June 2015
MOOC «Creating and developing a Tech Startup»
Successfully completed with distinction
Ecole Polytechnique and HEC Paris
- From September 2013 to today
Microtechnology
Ecole Polytechnique Fédérale de Lausanne (Switzerland)
- From September 2010 to June 2013
Scientific Baccalauréat with distinction
Engineering sciences with speciality in mathematics
Lycée Edgar-Faure (Morteau, France)
- From September 2006 to June 2010
General Certificate of Secondary Education with distinction
Collège Jean-Claude Bouquet (Morteau, France)



WORK EXPERIENCE

- July 2018 to september 2018 - *InGaNOS project*
SOITEC - Product Integration Junior Engineer
Working on a disruptive engineered substrate
InGaN-based for green & red micro-LEDs growth
- July 2017 to today
LASPE (Advanced Semiconductors for Photonics and Electronics Labs)
Repair an integrating sphere
Development of low current power-supply
- August 2016 to September 2016
Laboratory LMIS1 (Microsystems Laboratory)
Development and tests of an innovative molding
method to characterize a FDA approved polymer
Fabrication and tests of tensile specimens
Use of cleanroom (ISO 100)
- July 2016
ETML in Lausanne
Machining internship
Use of highly precision milling, turning and drilling
machines
- August 2015/2014/2013/2012/2011
Uhrenatelier Suché in Cologne (Germany)
Sorting and classification of watch movements by caliber, brands and line
number
Quality control
Calibration and tests of a LASER to renovate and personalize watch move-
ment or watch écran



ENTREPRENARIAL EXPERIENCE Implication in the creation of 2 start-ups

- **Ty mos** High-quality and experience services. The healthy and perfect breakfast for you and your family. Simply delivered directly at the front of your door.
- **Sabriquet** Casual style hydrophobical pants. « Protect cyclists again rain with elegance and 100% Swiss Made ! »

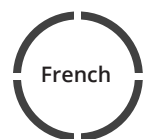
PROJECTS

- September 2018 to January 2019
Compliant substrates : theory, study of a possible interlayer material (fabrication and properties), definition of experimental methods & rugosity measurements.
- February 2018 to June 2018
Characterization of tunnel junction LEDs & current spreading modelization.
- September 2017 to January 2018
Product design of a «Smart Flower Pot» : from the idea to the final mass production prevision. Use of IOT, sensors integration with custom electronics, FDM & SLS 3D-printing.
Start-up like working environment
- September 2016 to April 2017
Participation to the International Physicist' Tournament (IPT) representing Switzerland as a member of the EPFL team
- April 2016 to June 2016
Design a high straightness linear guidance made from flexible joints and apply them to the realization of a watt balance of new generation (to measure the different standard kilograms distributed around the world in the different standard offices).
- December 2015
Build a video-game (Tetris) only with logical components. Programmation of a FPGA card to emulate the logic circuit.
- September 2013 to May 2014
- Code 2 computer programs : the first to modify the contrast of photographs chosen by the user (C language), the second was a multiplayer game (C and C++ languages).
- Study a project of a catapult only powered by one compression spring : faisability tests, sizing and building of CAD models.
- September 2012 to May 2013
Design and manufacture of a prototype of a vehicle (radio controlled) which is able to collect liquid from a hostile terrain like after a nuclear disaster. *Grade obtained : 19/20*
- October 2011 to May 2012
- Design and launch of a weather balloon for scientific experiments, temperature measurements and Global Positioning Production tracking. The balloon was launched in Villers-le-Lac (France), has traveled around 200km and has landed near Schwytz (Switzerland).
- Design of a device to save energy : lighting control of a room with the exterior brightness. *Grade obtained : 17/20*

AWARDS

- May 2010 First prize in the competition of mathematics at my high school
- June 2006 First Film Critics prize of my department (around 7.000 students in high school)

LANGUAGE SKILLS



Native speaker



Good speaker



Intermediate
speaker
(B1 certified)

HOBBIES & INTERESTS



Skiing



Programming



Electronic



Physics



(Retro) Gaming



Comic



Movies



Science magazine



Cooking



Small Sat

SKILLS

- Cleanroom
- PCB Design
- Electronics
- 3D-printing
- Matlab/Scilab
- AVR Assembler
- C-language
- CAO
- Materials
- Leadership
- Team manager
- Linux
- Mac OS
- OpenSource
- Windows
- LaTeX
- Adobe Suite
- Microsoft Office Suite
- Solidworks
- Flexure mechanism
- Curious
- Open minded