Dylan
Bourgeois

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@dtsbourg

ROBOTICS

2nd year
masters

EPFL
Switzerland

> "*We could do nothing but praise Dylan who was available, effective and implicated in all tasks assigned to him.*"

Dr Jean-Luc Robert
Research Engineer CNRS
Laboratoire APC, Paris

Tennis- competitive level

Music curation

Running

Film editing

Traveling-
Asia, Europe, USA,
looking forward to more

and also

Head of IT
Satellite, **EPFL,** 2016-2017

Teaching Assistant
Applied Data Analysis, **EPFL,** 2017

Lighting staff
Balélec Festival, **EPFL**, 2015-2017

Music programmer Underground Stage, Sat Rocks Festival, 2016

Contributor Signal for iOS
Open Whisper Systems, 2014

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did it
Internships

Distributed Information Systems Laboratory (LSIR), EPFL, Feb-Jun 2017
As part of a semester project, we worked on identifying correlations in news coverage using Matrix Factorisation methods, usually used in recommender systems.

Learning Algorithms and Systems Laboratory (LASA), **EPFL,** Feb-Jun 2016
Studying failure detection, prediction and recovery for robots. Using the robot's internal and external sensors, were trying to determine (as far in advance as possible) when a robot task execution was about to fail.

Institut de Robòtica i Informàtica industrial(IRI), UPC-Barcelona, Summer 2016
Extending a visual odometry framework to support inertial readings at a high frequency. This included verifying and implementing IMU preintegration on manifold methods developed by the RPG lab at ETH Zurich.

Laboratory of Intelligent Systems, EPFL, Sept-Dec. 2015
Implemented a free-fall recovery algorithm for a quadcopter, allowing for emergency stabilization or throw recovery. Work was done under the supervision of a research engineer, and in collaboration with researchers from LIS, which specializes in autonomous robotics, bionspired artificial intelligence, and was the base for spin-offs such as Sensefly and Flyability.
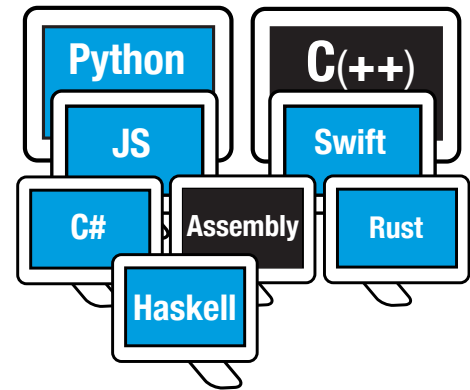
Museum of Natural History, multi media department, NYC, Summer 2014
The Interactives department creates all the multimedia content and interaction software that accompanies the museum's exhibits. Working with developers and multimedia artists, the internship included close collaborations with AMNH scientists. Technologies included VR, projections, iPad apps, and several innovative interactive systems.

Laboratoire AstroParticules et Cosmologie (APC) Paris, France
Summer 2010 & 2011
Assistant to Dr Jean-Luc Robert, collaborated on communications for the general public of events and lectures at APC. Opportunities to interact with scientists such as Nobel Prize Winner George Smoot were part of the experience at APC.

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can do
Programming

Python	C(++)
JS	Swift
C#	Assembly	Rust
Haskell	

🟦 **self taught**   ⬛ **class work**

can do
Software

Matlab
Solidworks (CAD)
Logisim (Digital Logic circuits)
MPLabX
Unity3D
Sketch
Gantt Project
Git
QGroundControl
ROS
Final Cut Pro X
Sklearn + various ML frameworks
Jupyter Notebooks

Education

09/2016
12/2018 — Master of Science & Engineering /speciality Robotics + extra credits in Computational Neuroscience, EPFL

09/2012
06/2016 — Bachelor of Science & Engineering /speciality Microengineering, EPFL

06/2012 — French Baccalaureate, Scientific specialization & advanced Mathematics

English !
Français !
Español !

Languages
spoken / written