

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

did it Internships



Robot Learning & Interaction group
IDIAP, Sept-Dec 2017

As part of a semester project, we were investigating partial joint control on a humanoid robot. This project was finalized by an AR interface based on Tango to control the Baxter robot.

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.

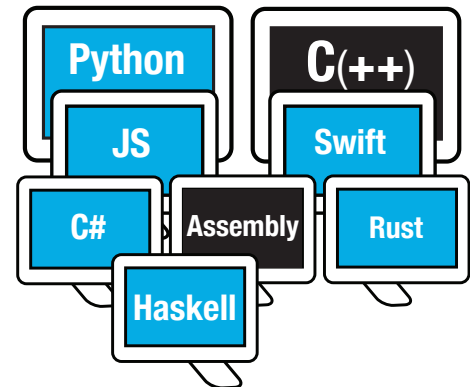
Museum of Natural History, multi media department, NYC, Summer 2014

The Interactives department creates all the multimedia content and interaction software that accompanies the museum's exhibits. 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.

can do Programming



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

