

Fayez Lahoud

Avenue de Cour 155
1007 Lausanne, Suisse

fayezlahoud@gmail.com
fayez.me

EDUCATION	École Polytechnique Fédérale de Lausanne Ph.D., Computer Science	2017 - Present
	École Polytechnique Fédérale de Lausanne M.S., Computer Science	2015 - 2017
	American University of Beirut B.E., Computer and Communication Engineering Minor in Mathematics Dean's Honor List for 7 times	2009 - 2013
RESEARCH EXPERIENCE	American University of Beirut - Research Assistant <ul style="list-style-type: none">• UI and Engine for data mining tweets by users and countries• Tweet analysis and sentiment prediction (calm, neutral, aggressive) <i>Technologies:</i> Java, Swing, Twitter API, REST Architecture	2012
	American University of Beirut - Final Year Project <ul style="list-style-type: none">• Genetic algorithm for daily rides scheduling• Android application for requesting rides and viewing routes• Best poster award at the FEA student and alumni conference <i>Technologies:</i> Java, Android, Google Maps API, Genetic Algorithms	2012 - 2013
	École Polytechnique Fédérale de Lausanne - Semester Project <ul style="list-style-type: none">• Automated pipeline for digitizing archived paintings• Image processing and OCR for locating and reading information in scans• Barcode locating and reading for identifying paintings <i>Technologies:</i> Python, Anaconda, OpenCV, Tesseract, Image Processing	2016
	École Polytechnique Fédérale de Lausanne - Semester Project <ul style="list-style-type: none">• Local and global image enhancement based on keywords• Image feature extraction and comparison• Automatic enhancement based on comparison decision <i>Technologies:</i> Python, Anaconda, Image descriptors, Tone mapping, Image enhancement	2016
PROFESSIONAL EXPERIENCE	Murex Systems - Software Developer <ul style="list-style-type: none">• Java Swing manipulation API for test developers• Web templates for test reports and automated tools• Java-JavaScript bindings API in JavaFx Webview	2012 - 2015

Technologies: JavaFx, Groovy, Maven, JavaScript, AngularJS, Ruby, Rails

Vidinoti SA - Software Developer

2016

- Image recognition and tracking using AGAST detectors and BRIEF descriptors
- NPM module development for automating descriptors calculation
- Mobile JavaScript library development for Augmented Reality applications

Technologies: JavaScript, RequireJS, NPM, Gulp, Python, Image processing

Sony Europe - Software Developer

2017

- Audio speech recognition using convolutional networks
- Visualizations for Sony's DNN Library
- Distributed resource management using Grid Engine

Technologies: C/C++, Cython, Python, DNN, NNabla, Open Grid Engine

PUBLICATIONS O. Dakroub, C. M. Boukhater, **F. Lahoud**, M. Awad, and H. Artail, An intelligent carpooling app for a green social solution to traffic and parking congestions, in Intelligent Transportation Systems (ITSC), 2013 16th International IEEE Conference on, 2013, pp. 24012408.

C. M. Boukhater, O. Dakroub, **F. Lahoud**, M. Awad, and H. Artail, An intelligent and fair GA carpooling scheduler as a social solution for greener transportation, in Mediterranean Electrotechnical Conference (MELECON), 2014 17th IEEE, 2014, pp. 182186.

F. Lahoud, M. S. Ortiz Segovia, B. Jin, and S. Ssstrunk, Keyword-Based image color re-rendering with semantic segmentation, in IEEE International Conference on Image Processing (ICIP), 2017, no. EPFL-CONF-231739.

LANGUAGES

English - French: Fluent

Arabic: Mother-tongue

Spanish: Self-taught (B1 Level)

Traditional Chinese: Self-taught (HSK2 Level)