

Benjamin (Bill) Planche

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26 y-o – Clean driving license – Ready to relocate
aldream.net | [500px/Aldream](https://www.linkedin.com/company/500px/Aldream)



EDUCATION

- 2014
8 months
Germany
M.S. in Computer Science, with Honors & Excellence Award – Universität Passau
 - French-German Double Degree
 - Multimedia, Stream Processing, Distributed Systems
- 2010-14
France
Master's Degree in Computer Science, with Honors – INSA-Lyon
 - Programming techniques, Hardware & Networks
 - Team, Project & Quality Management
- 2013
5 months
Sweden
ERASMUS Exchange, Computer Science Master – Luleå Tekniska Universitet
 - Mobile Media, Distributed Systems, Web Services
 - Language Theory
- 2008-10
France
Undergraduate intensive course – INSA-Lyon
 - Engineering sciences – Mathematics, Mechanics, Physics, Thermodynamics
 - ASINSA – Department with emphasis on cultural and scientific connections with Asia
- 2008
France
Scientific Baccalaureate, with Honors & European Grad (English)

PROFESSIONAL EXPERIENCE

- 2015
9 months
(en cours)
Company-based PhD Student in Computer Vision
Siemens + Uni-Passau (Munich, Germany)
 - Uses CAD models to generate synthetic data to train deep neural networks for the recognition of manufactured objects
 - Participates to European industrial projects (linked to Industrie)Deep Learning, OpenCV, OpenGL, Python, Caffe
- 2014
6 months
Master's Thesis Partner
Siemens + Uni-Passau + INSA-Lyon (Passau, Germany)
 - Improved a stream-processing architecture for the processing of Smart Grid data
 - Implemented tools for performance simulationOpenPDC, Physics, Data Processing, C#
- 2012-13
1 year
Image Analysis Intern (gap year)
Mitsubishi Electric (Osaka, Japan)
 - Developed solutions to process data from multiple sensors
 - Implemented applications for industrial robotsC#, Matlab, OpenCV, Robotics Studio
- 2012
4 months
Java Developer Intern (internship)
Atos Worldline (Lyon, France)
 - Implemented processors for large electronic payment flows (PCI-DSS)
 - Designed tasks to analyze financial flows and detect anomaliesJava, Spring, SCRUM
- 2011
3 months
Image Analysis Intern (internship)
LIRIS, Imagine (Lyon, France)
 - Researched and implemented plant patterns recognition algorithms
 - Mastered probabilistic comparison algorithms on image databasesC++, Qt, OpenCV
- 2010-12
Academic Tutor
Passerelle INSA Lyon (Lyon, France)
 - Prepared and taught science courses to undergraduate engineersTeaching, Math, Physics, Thermodynamics
- 2010
1 month
Teacher-volunteer
RCDP (Katmandu, Nepal)
 - Prepared and taught English courses to young Buddhist monksTeaching, Social

2009 **Trainee** (internship) Etiquette, Labor,
1 month *Tajima Roofing* (Tokyo, Japan) Plant
• Initiated to the Japanese business model & labor work Management

PROJECTS (github.com/Aldream)

2013 **Pointillism + Morphose** – *Awarded JS1K 2013 demos*
• Applied procedural and 3D algorithms to create 1KB demos Javascript, Math

2012-15 **Rithm + Brightnest + Cozy-Nest** – *Home Automation Systems*
• Implemented modular communications with various sensors/actuators C, node.js, HTML5, SQLite, CouchDB,
• Developed a complete server with a flexible inference engine + API Gulp, Mocha, SCRUM

2013-14 **Notepal + 3Dpal** – *Collaborative Editing Websites*
• Implemented the Jupiter System, an architecture for real-time collaboration node.js, Socket.io, mongoDB, HTML5

2012-13 **AEDI S.I.** – *Website of our student association*
• Computerized the main services (e.g. contacts book) JQuery, Ajax, PHP, HTML5, Bootstrap
• Set up a new web interface.

PUBLICATIONS

- Planche B., Wu Z., Ma K., Sun S., Kluckner S., Chen T., Hutter A., Zakharov S., Kosch H., Ernst J. (2017). *DepthSynth: Real-Time Realistic Synthetic Data Generation from CAD Models for 2.5D Recognition*. eprint arXiv:1702.08558
- Planche, B., Malyn, B. I., Blanco, D. B., & Bermejo, M. C. (2014). The Brightnest Web-Based Home Automation System. In *Ubiquitous Computing and Ambient Intelligence. Personalisation and User Adapted Services* (pp. 72-75). Springer International Publishing.
- Planche, B. (2014). PMU Data Processing for Smart Grids. (Master's Thesis). Available at *Siemens Corporate Technology*.

LANGUAGES

French : Mother tongue
English : **Fluent** – Advanced classes, years spent abroad – TOEIC : 990 out of 990
German, Japanese : Good skills, both written and oral
Chinese, Swedish : Basic knowledge

ACTIVITIES

- Semi-professional photographer (landscapes, urbex, travels, events)
- Couchsurfing Host (host, feed and guide travelers)