

Etienne BURDET

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🌐 <http://etienneburdet.com> | [@etienneburdet](https://twitter.com/etienneburdet) | [in Etienne Burdet](https://www.linkedin.com/company/etienneburdet) | [/etienneburdet](https://www.youtube.com/channel/UC...)

EDUCATION

UNIVERSITÉ PARIS-EST

MSc. in Urban Engineering
Sustainable Urban Development
Sept 2011 | Paris, FR

ÉCOLE NORMALE SUPÉRIEURE DE CACHAN

Civil Engineering
Graduated Sept 2011 | Paris, FR

Agrégation - Civil Engineering
ranked 9th, 2010 | Paris, FR

SKILLS

PROGRAMMING

Matlab/Octave • HTML/CSS
Meteor-React • Solidity

SOFTWARE

Qgis • CitySim • Rhino • Ladybug Tools
Adobe Illustrator • Freeplane • Github •
Airtable • Todoist/Twist

LANGUAGES

French : native
English : fluent (965 TOEIC,
conferences, papers, teamwork)

TEACHING

Master's lectures

Dense Cities and Energy • Urban
morphology • Microgrids and
Smartgrids

Undergraduate Studios

Paris factor 4 • Environmental Impact
Studies • Urban Acoustics

PERSONNAL

- International Driving License
- BMX coach for kids from 3 to 12
- Import of fine teas for an association of amateurs (contacts in China and Japan, shipping, accounting).
- Snowboarding, Trail Running

CORPORATE

AREP Smart City Officer, Sustainable Development Team

Feb. 2016 – Present | Paris, FR

Prototype design: I developed a blockchain and beacon-based waste management system, an AI based solar autonomous system for train station and full concept for an hydrogen-storage autonomy system for a large station. I helped designing a private bikesharing system that spinned off into a start-up.

Innovation program management: I designed two challenges for start-ups on construction material upcycling and logistic waste reduction. I sourced start-ups and oversaw the experiments. I held workshops and wrote computer scripts to help the resulting process scale fast at the company level.

Academic partnership management: I oversaw the partnership between SNCF Gares & Connexions and MIT Senseable City Lab on computer vision analysis of space. I helped to choose the problematic, to design and run the experiment. I vulgarized scientific results for designers to try imagining how they could use the tool in their practice.

I held a workshop to help urban planning officer applying the guidelines on real cases.

Urban Sustainability studies: I conducted various sustainability studies for train stations, large buildings, urban design, and urban master planning in France, Morocco, Switzerland, United Emirates, Bahrein, Russia, India, and China. I held multiple workshop to collect input from field people and train them to use our tools.

SNCF "Synapse" scientific expert: I designed and ran multidisciplinary workshops on automated mobility. I wrote for the *Blockchain for mobility* report for SNCF C-levels.

RESEARCH

EIVP Research Engineer

Oct 2011 – Jun. 2015 | Paris, FR

I developed (theory and software) an integrated model of urban heat island, building energy and solar access as part of industrial research project. I held workshops with urban planners and stakeholders to assess their needs.

URBAN MORPHOLOGY LAB Msc. (dir. S.Salat)

Feb-Sep 2011 | Paris, FR

I analyzed and classified many types of urban fabric around the world to understand how they evolved according to climatic, social and mobility needs.

UNIVERSITY OF COLORADO BOULDER Intern

April - Sep 2009 | Boulder, CO

I helped coding, testing software and preparing material, for a large earthquake simulation program.