

Marcel Enguehard

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<https://enguehard.org>

EDUCATION

TELECOM PARISTECH

PHD - COMPUTER SCIENCE
Expected April 2019 | Paris, FR

KTH - ROYAL INSTITUTE OF TECHNOLOGY

CIV. ING. (MSc) - COMPUTER SCIENCE
2014-2016 | Stockholm, SE
Dual-degree with École Polytechnique

ÉCOLE POLYTECHNIQUE

DIPLOME D'INGENIEUR (MSc) - ENGINEERING
2011-2016 | Palaiseau, FR
France's leading engineering institution
Track: Computer Networks

LYCÉE LOUIS-LE-GRAND

MATHEMATICS AND PHYSICS
2009-2011 | Paris, FR
Selective undergraduate course before the entrance exam to French "Grandes Ecoles". Ranked 7th in France at ENS Paris entrance exam in the Computer Science track.

LINKS

Github:// [marceleng](#)
LinkedIn:// [marceleng](#)
Twitter:// [@menguehard](#)

SKILLS

PROGRAMMING

Advanced knowledge:
C • Python • C++11 • \LaTeX
Familiar:
Java • Rust • Bash
Notions:
MySQL • JavaScript • Ruby

LANGUAGES

French : native
English : full proficiency (C2)
German : advanced (C1)
Swedish : intermediate (B2)

EXPERIENCE

CISCO SYSTEMS | SOFTWARE ENGINEER & PHD CANDIDATE

Jan 2016 – Expected April 2019 | Issy les Moulineaux, FR

- Research focused on enabling new Internet of Things (IoT) applications by empowering IoT networks using Information-Centric Networking (ICN)
- Developed security drivers and routing stacks for embedded systems
- Using stochastic models to predict the behavior of complex network systems
- Contributed to the conception and development of an open-source network virtualization and management framework (<https://wiki.fd.io/view/Vicn>)
- Teaching assistant: Cybersecurity (INF474X) and Networks (INF474N) at Ecole Polytechnique, Internet Applications (RES203) at Telecom ParisTech

KTH - NETWORK SYSTEMS LAB | RESEARCH ASSISTANT

Jun 2015 – Oct 2015 | Stockholm, SE

- Master thesis on optimizing the performance of chained network functions
- Developed a new scheduling technique for processes in the Linux Kernel
- Created and developed a tool for synthesizing chains of network functions by reducing the number of packet and I/O operations (<http://github.com/gkatsikas/snf>)
- Teaching assistant: Advanced Internetworking (IK2215), Protocols and Principles of the Internet (IK2218), Internet Security and Privacy (IK2206)

CISCO SYSTEMS | RESEARCH SOFTWARE ENGINEER

Mar 2014 – Aug 2014 | Issy les Moulineaux, FR

- Investigated performance differences between IPv6 and IPv4
- Designed a comprehensive experiment setup and gathered data from billions of connections over a two-weeks period
- Leveraged a Big-Data platform to show incoherences in peering policies that hampered user experience

TONBO IMAGING | SOFTWARE ENGINEER

Jul 2013 - Aug 2013 | Bangalore, IN
I created and wrote an algorithm to optimize the parameters of a image stabilization algorithm for live videos and programmed a tool to automatically calibrate and align the images of two cameras in a stereo configuration

SELECTED PUBLICATIONS

Out of: 2 journal articles, 3 conference presentations, 6 pending patent applications

- **M. Enguehard**, R. Droms, D. Rossi. "On the cost of geographic forwarding for information centric things." In *IEEE Transactions on Green Communications and Networking*, 2018.
- **M. Enguehard**, G. Carofiglio, D. Rossi. "A popularity-based approach for effective Cloud offload in Fog deployments." In *ITC 30*, 2018.
- M. Sardara, L. Muscariello, J. Augé, **M. Enguehard**, A. Compagno, and G. Carofiglio. "Virtualized ICN (vICN): Towards a unified network virtualization framework for ICN experimentation." In *ACM ICN*, 2017.