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\*Academic age as  
defined by the SNSF

## Romain Jacob

Postdoctoral Researcher – Open Science Enthusiast

Doctorate in Computer Science  
Master in Mechanical Engineering  
Master in Pedagogy

Wireless Embedded Systems  
Automatic Control  
Engineering Sciences

6.8 FTE of research activities\*

### Education

2015–2019

Doctorate in Computer Science  
“Leveraging Synchronous Transmissions for the  
Design of Real-time Wireless Cyber-Physical System”  
Supervised by Prof. Lothar Thiele  
**ETH Zurich**, Switzerland

2011–2014

Master in “Engineering of Complex Systems”  
Advised by Prof. Jean-Jacques Lesage  
**École Normale Supérieure (ENS) de Cachan**, France

2012–2013

Agrégation in Industrial Science—Mechanics major  
*French national exam for higher education teachers*

Master in “Faculty Training for Higher Education”  
**École Normale Supérieure (ENS) de Cachan**, France

2010–2011

Bachelor in Mechanical Engineering  
**Université Pierre et Marie Curie** (UPMC, Paris 6), France

### Experience

2020–current

Postdoctoral Researcher  
Networked Systems Group, headed by Prof. Laurent Vanbever  
**ETH Zurich**, Switzerland

2015–2020

Doctoral Student and Scientific Assistant  
Computer Engineering group, headed by Prof. Lothar Thiele  
**ETH Zurich**, Switzerland

2013–2014

Visiting Scholar  
Vehicle Dynamics and Control laboratory, headed by Prof. Karl J. Hedrick<sup>†</sup>  
**University of California (UC) Berkeley**, CA, USA

2012–2013

Scientific Consultant  
Project with **Aldebaran-Robotics**, creators of Nao the humanoid robot  
Paris, France

2012

Research Intern  
Automation research group, supervised by Prof. Martin Fabian  
**Chalmers University of Technology**, Göteborg, Sweden

## *Distinctions*

2022	<a href="#">BenchCouncil</a> Distinguished Doctoral Dissertation Award
2019	Best Paper Award, ACM ICCPS Best Demo Award, ACM/IEEE IPSN Future Prize, second prize, <a href="#">Ewald Marquardt Foundation</a>
2017	Finalist, <a href="#">Famelab Switzerland</a>
2016	Finalist, "My Thesis in 180s" competition organized by <a href="#">Nano-Tera.ch</a>
2014	Ranked 1st at the Agrégation in Industrial Science (national exam)
2013	Research scholarship from the French Academy (Walter-Zellidja Foundation)

## *Open source projects*

Software	TriScale Framework helping to make the experiment design and data analysis more replicable <a href="https://tryscale.ethz.ch">tryscale.ethz.ch</a>
Dataset	Synchronous transmissions on Bluetooth 5 and IEEE 802.15.4 Dataset and analysis scripts of a replication study of synchronous transmissions using the nRF52840 Dongle <a href="https://doi.org/10.5281/zenodo.3964354">10.5281/zenodo.3964354</a> Data visualization: <a href="https://explore-st-data.ethz.ch">explore-st-data.ethz.ch</a>
Software	Time-Triggered Wireless Architecture Public software and artifacts related to the Time-Triggered Wireless Architecture project <a href="https://doi.org/10.5281/zenodo.3759221">10.5281/zenodo.3759221</a>
Dataset	Wireless Link Quality Estimation on FlockLab – and Beyond Dataset of wireless link quality estimation for the <a href="#">FlockLab testbed</a> <a href="https://doi.org/10.5281/zenodo.3354717">10.5281/zenodo.3354717</a>
Software	Baloo Design framework for network stacks based on Synchronous Transmissions <a href="https://doi.org/10.5281/zenodo.3510171">10.5281/zenodo.3510171</a>
Software	The Distributed Real-time Protocol Simulation code and experiment results for the Distributed Real-time Protocol project <a href="https://doi.org/10.5281/zenodo.3530757">10.5281/zenodo.3530757</a>
Software	The Low-power Wireless Bus Implementation of LWB for the TelosB mote <a href="https://github.com/ETHZ-TEC/LWB-Baseline">github.com/ETHZ-TEC/LWB-Baseline</a>