Henrick **Deschamps**

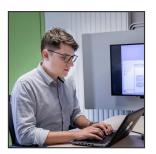Ph.D. candidate, Eng. in Computer Science and Network · Critical Distributed Systems Specialist

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*Seeking a challenging, responsible position as a distributed systems engineer in an agile
aerospace structure with the objective of becoming an industrial expert.*

Skills

Programming	C/C++, Python, Java, Haskell, Bash, Ada, LaTeX
Office softwares	Word processor, spreadsheet, database, scientific writing
Software design	UML, SysML, AADL, static code analysis, code instrumentation
Devops	Versioning, virtualization, test automation, continuous integration
Frameworks and libraries	STL, HLA (CERTI), MQTT, MPI, OpenMP, POSIX, Linux kernel, Qt5, nl
Tools	CMake, Make, clang (-format, -tidy), debbuger, valgrind, wireshark, TCP tools, coverage, afl
Languages	French, English, Chinese

Work Experience

Airbus, Aircraft simulation department
Toulouse, France

Software Engineer for simulation architecture, Ph.D. Candidate
Mar. 2016 – Mar. 2019

- Formalization of the execution of a distributed simulation for the *a priori* validation of a simulation scheduling respecting aerospatial-specific constraints.

ISAE–Supaero (Superior Institute of Aeronautics and Space)
Toulouse, France

ATER (Temporary Teaching and Research Assistant)
Mar. 2016 – current

- Teaching assistant in C, Java, Real-time systems, SysML, and numerical analysis.

Viveris Technologies
Toulouse, France

Software Engineer consultant for satellite ground segment communications
Dec. 2014 – Feb. 2016

- Implementation of a DVB-RCS2 communication protocol in satellite communications ground segment for Thalès Alenia Space.
- Development and integration of network modules in multi-threaded telecommunication kernel device. Open-source library available at hnrck/librle.

Airbus Group Innovations
Toulouse, France

Software Engineer Final year project
Feb. 2014 – Aug. 2016

- Internship in the modeling of avionic ethernet network QoS for validation of the quality of service rules.

LAAS (Laboratory for Analysis and Architecture of Systems)
Toulouse, France

Software Engineer 4th year internship
Jun. 2013 – Aug. 2013

- M2M energy efficient communication. Software defined radios for wireless sensors network, with consideration for home automation and avionics applications.

Education

ISAE–Supaero (Superior Institute of Aeronautics and Space)
Toulouse, France

Industrial Ph.D. in Networks, Telecoms, Systems and Architecture
2016 – (expected) 2019

INSA (National Institute of Applied Sciences)
Toulouse, France

Engineering Degree in Computer Science and Communication Networks
2009 – 2014

UQO (Quebec University in Ottawa)
Ottawa, Canada

Exchange student, Master in Computer Engineering, Telecommunication Networks and IT security
2013

- Exchange semester administered by the CREPUQ (Conference of Rectors and Principals of Québec Universities).
- GPA 4.3 / 4.3, A+ grade

Jules Renard Highschool
Nevers, France

French scientifical *Baccalaureat*
2008