Enzo **Brignon**

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Main skills

- C/C++
- Language theory
- Temporal Logics
- SAT/SMT
- Compilation
- OCaml

Experience

Qualification Engeneer

Kaizen Solutions for Hager Security

March 2020 — Today

Villard-Bonnot

- Test plans development from specifications
- Specifications review
- Test plans execution
- Used technologies:
  - Microsoft Azure DevOps Server (TFS)
  - Microsoft Office

Research Engeneer

TIMA Laboratory (Grenoble INP)

September — December 2019

Grenoble

- Internship work continuation
- Test generation method enhancement
- Used technologies:
  - OCaml
  - Microsoft Z3 SAT/SMT solver
  - Petri Net
  - GRAFCET
  - NuSMV model checker

Research Internships

TIMA Laboratory (Grenoble INP)

June 2017 — August 2017, May 2018 — August 2018, February 2019 — August 2019

Grenoble

See Education

Adapted Holidays Animator

ALPAS (Association de Loisirs et de Promotion des Activités Sociales)

2015, 2016 and 2017 summers

Grenoble

- Shared living space management (housework, cooking…)
- Animator for activities suitable for adults with intellectual disabilities.

Skills

Programming	C/C++, Bash, Ocaml, Ada, Lua, Python, Awk, Assembleur ARM, JAVA
Formal methods	Temporal Logics, Process Algebra, SAT/SMT, model-checking
Compilation	Language theory, syntax and semantic analysis, linker, ELF file format
Hardware architecture	Combinatorial circuits, synchronous sequential circuits, processor architecture
Hardware model	VHDL, SystemC
System	Linux, file system, process, threads, TCP/IP
Distributed computing	OpenMP, MPI, JAVA RMI, RabbitMQ
Data bases	SQL, MongoDB
Tools	Compilation/debug toolchain for ARM/x86, Modelsim, Git, Emacs, Vim, LaTeX
Languages	French, English (reading, writing, speaking)

Formation

2018 — 2019

Master 2 MOSIG — "Bien" mention
(Master of Science in Informatics at Grenoble)
Third year of magistère in informatics

Université Grenoble Alpes, UFR IM²AG, Saint Martin d'Hères, France

Master 2 and Magistère internship, TIMA Laboratory (Grenoble) *February 2019 — August 2019*

"*Towards automated fault tolerance analysis for programmable automata*"

Study of nominal and fault test scenario modelling and automatic executable test generation.
Used technologies:

- OCaml
- Microsoft Z3 SAT/SMT solver
- Petri Nets
- GRAFCET
- NuSMV model checker

2017 — 2018

Master 1 Informatique — "Bien" mention
Second year of magistère in informatics

Université Grenoble Alpes, UFR IM²AG, Saint Martin d'Hères, France

Magistère internship, TIMA Laboratory (Grenoble) *May 2018 — August 2018*

"*Solutions to implement safety/security online monitoring for embedded software (2)*"

Third Licence year Magistère internship continuation.
Definition and implementation of a more efficient solution online temporal properties monitoring on ARM processors. Experiments on several case studies.
Used technologies:

- C/C++
- Awk/Sed
- GNU objdump/readelf
- DWARF debug informations

Publication: "*Assertion-based Verification through Binary Instrumentation*", E.Brignon & L.Pierre, DATE'2019 - Florence (Italy), March 2019

2016 — 2017

Licence in informatics
First year of magistère in informatics

Université Grenoble Alpes, UFR IM²AG,Saint Martin d'Hères, France

Stage de Magistère, Laboratoire TIMA (Grenoble) *June 2017 — August 2017*

"*Solutions to implement safety/security online monitoring for embedded software (1)*"

Study of temporal properties formal specifications for embedded software. Definition and prototyping of a solution for online monitoring of such properties for ARM processor.
Used technologies:

- C/C++
- Awk/Sed
- GNU objdump/readelf
- DWARF debug informations

2014 - 2016

First and second year of
Licence "Mathématique-Informatique internationale"

Université Grenoble Alpes, DLST, Saint Martin d'Hères, France

Mathematic and Informatics formation in english.