

David TOCAVEN

Automatic master's degree student

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French
Driver's licence



► Education

- 2015 – 2017 **EEA master's degree**,
Paul Sabatier University, Toulouse.
- 2013 – 2015 **Electronic, Electronic engineering and automatic Bachelor's degree**,
Paul Sabatier University, Toulouse.
- 2010 – 2013 **Scientific stream Baccalaureate**
(equivalent to High School diploma),
La Borde Basse High School, Castres.

► Skills

► Automatic control – discrete and continuous time

- **Modelling** : State space, linear and non linear, linear multiple input-output, uncertain, time delays system.
- **Analysis** : frequency, temporal (linear and non-linear), Lyapunov theory, performance, uncertain system, robustness, stability of times delays system.
- **Control** : PID, multiple input-output, robust, Observer based state feedback, late system

► Automatic control – Discrete events systems

- Automaton,
- Petri network (standard, stochastic, timed),
- $(max, +)$ algebra,
- DEVS models,
- control and controllability,
- Analysis, simulation, implementation,
- Language,
- Supervised control and diagnosers.

► Software skills

For automatic : **Matlab** : Simulink, OOP, GUI, RTW.
For computer science : **Eclipse**, **Git**, **Doxygen**.
Office software : **T_EXmaker**, **Microsoft office suite**, **free Office suite**.

► Languages

Matlab good knowledge, **LaTeX good knowledge**, **C good knowledge**, **Assembler notion**, **VHDL good foundation**, **ST** and **IL-LIST notion**, **Arduino good foundation**, **Java basics**, **C++ notion**.

► Implementation

- **Computer science** : System modelling (UML, UML2, SysML, embedded systems), object-oriented, parallel (mutual exclusion, synchronisation, thread, multitasking.).
- **Industrial computing** : DSP *notions*, Microcontroller *basics*,
- **Real time** : OSEK/VDX standard, scheduling, RTOS, requirement checking, reactivity.
- **Network** : Internet *basics*, Network Calculus, CAN, AFDX, real time network.

► Language and communication skills

- **Langue** : French (mother tongue), English
- **Communication** : oral and written in French and English.
- **Project management** : Gantt, WBS, RACI, Agile.

► Personal interests



scientific watch



Travels



Do-it-yourself (bike trailer, electronic, ...)