David **TOCAVEN**

Automatic master's degree student

Driver's licence

149 rue du Faubourg Bonnefoy

⊠ david.tocaven@univ-tlse3.fr

31500 Toulouse

DavidTocaven

(+33)6 45 52 25 72

France

French



Education

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

▶ Work Experience

Apr. to Aug. Research internship, LAAS-CNRS, Toulouse 2018 Active diagnostic, hybrid system, observer, (5 months) parity space 2016-2017 Research internship, LAAS-CNRS, Toulouse (4 weeks) DEVS model, discrete time, discrete events, modelling 2016 - 2017Master project, Paul Sabatier University, (6 months) Scientific method, automaton, project management, Matlab 2016 - 2017Research internship, LAPLACE, Toulouse Optic, digital image processing, thermal (5 weeks) science, Matlab, LATEX, Discovering the research world 2016 to present **Private lesson**, *Toulouse* Mathematics and automatic. Teaching skills and mathematical visualization

▶ Skills

▶ Automatic control – discrete and continuous time

Castres

- 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
- robust, Observer based state feedback, late system
 - ► Software skills

GUI, RTW For computer science : Eclipse, Git, bler notion, VHDL good foundation, Doxygen

Office software: **TeXmaker**, **Microsoft** foundation, **Java** basics, **C++** notion office suite, Free Office Suite

- ► Automatic control Discrete events systems
- Modelling: State space, linear and non Modelling: Automaton, Petri net Computer science: System model-(standard, stochastic, timed), (max, +)algebra, Discrete EVent Specification (DEVS), Language
 - Analysis: Cyclicity, controlability, diagnosability, determinism, coverage tree, • Industrial computing: DSP notions, marked and recognized language
 - control, diagnoser, observer
 - Implementation : Test, simulation, C, VHDL and ST implementations, Oriented • Network: Internet basics, Network Calobject approach
 - Languages

For automatic: Matlab: Simulink, OOP, Matlab good knowledge, LTFX good knowledge, C good knowledge, Assem-ST and IL-LIST notion, Arduino good

- ▶ Implementation
- ling (UML, UML2, SysML, embedded systems), object-oriented, parallel (mutual exclusion, synchronisation, thread, multitasking)
- Microcontroller basics,
- Control: PID, multiple input-output, Control and diagnostic: Supervised Real time: OSEK/VDX standard, scheduling, RTOS, requirement checking, reactivity
 - culus, CAN, AFDX, real time network
 - ► Language and communication
 - **Language:** French (mother tongue), English
 - **Communication:** Oral and written in French and English
 - Project management: Gantt, WBS, RACI, Agile

Personal interests



