William PENSEC

PhD Student, Hardware Security, physical attacks, RISC-V

October 26, 1996

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🔁 Driving licence - Vehicle

T French

Social Network



Lab-STICC

Google Scholar

Languages

	French	•	•	•	•	•	
×	English	•	•	•	•		
	Italian	•	•				
6	Spanish	•	•				

Computer Science

- ♦ Software development C, C++, Java, JavaScript, Android, Python, Bash, php, AADL, Ada, Visual Basic
- **\Diamond:** Hardware development \bullet \bullet \bullet VHDL, System Verilog, FPGA, Suite Vivado HLS, Assembleur, RISC-V, LiteX
- 🛢 Data MySQL, JSON, XML
- Operating systems Linux, Windows
- >_ Micro-controllers Arduino, Raspberry Pi, FPGA Basic 3, Chip Whisperer

About me

I am currently working on a PhD Thesis in Computer Science at Lab-STICC in University of South Brittany (Lorient). I work in the field of hardware security on RISC-V and fault injection attacks in embedded systems (IoT).

Working Experience

2021 (5 months)	Final year internship (M2) Lab-ST Cooperation of drones in a heterogeneous system (C++, Linux, J TCP/IP, Raspberry Pi, embedded CNN)	
2020 (2 months)	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
2019 (2 months)	Internship in Computer Science (L3) UBO OpenFac Modeling the position of the Brest tramway in real time (Ardu Raspberry Pi, Python, JSON, php, HTML, Linux)	•

Education

2021 –	PhD Thesis in Computer Science (Lab-STICC) Protection of a processor with DIF	University of South Brittany - Lorient T against physical attacks
2019 - 2021	Master in Software for Embedded Systems	University of Western Brittany - Brest
2015 - 2019	Bachelor of Science in Computer Science: Fundamentals and Applications	University of Western Brittany - Brest
2014 - 2015	First Year Common to Health Studies (PACES)	University of Western Brittany - Brest
2014	Baccalaureate S-SVT, speciality ISN	High School of Cornouaille - Quimper

Projects

2022	Supervision of a M2 student in project University of South Brittany Implementation of a RISC-V processor on an FPGA target
2022	Supervision of a M1 internUniversity of South BrittanyPhysical attack on FPGA target
2020 - 2021	$\begin{array}{llllllllllllllllllllllllllllllllllll$
2020	Robotics project (M1) University of Western Brittany Creation of an environment for tracking a remote robot (NodeJS, TCP/IP, OpenStreetMap)
Papers	
2022	Smart Anomaly Detection and Monitoring of Industry 4.0 by Drones William PENSEC, David ESPES, Catherine DEZAN ICUAS

Interests

Sport	Swimming (club and leisure), cycling, water sports (scuba diving, kayaking)
Hobbies	Travel (France, Italy, Spain), video games, movies, series, music, read- ing
October 29,	2022 William PENSEC