



ALEXANDRE BOURDOIS

SOFTWARE ENGINEER

CONTACT

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🌐 alexandrebourdois.com

📍 Rennes, France

SKILLS

- Problem-solving
- Collaboration
- Critical Thinking
- Adaptability
- Open-mindedness

LANGUAGE

- English
- French

ABOUT ME

Dynamic Hardware and Software engineer with a solid foundation in both domains. Excited to leverage technical skills and adaptability. Experienced in collaborative problem-solving, rapid learning, and innovative solution development.

WORK EXPERIENCE

Application software engineer 2023 – 2024

STMICROELECTRONICS – Rennes in FRANCE

- Programming of microcontrollers (STM32)
- Development of testing tools in Python
- Application of NB-IoT and GNSS
- Communication protocols (SPI, UART, I²C, MQTT, etc.)
- Use of TLS to secure HTTP exchanges

Electronic engineer 2023

UTM – Johor Bahru in Malaysia – Intern

- Complete design of a digital probe from CAD to assembly
- Assistance with PCB manufacturing (CNC, electroplating, etc.)
- Architecture description in Verilog

IoT Cybersecurity Consultant 2021-2023

LOOTUS – Saint-Grégoire in FRANCE

- Programming of microcontrollers (STM32)
- Design of a USB update Bootloader by DFU protocol
- FPGA SOC creation in Python using LITEX
- Electronic board design (CAD)
- Linux embedded developments
- Reverse engineering of optical systems (decoding and implementation of proprietary video encoding protocol)

EDUCATION

INSA RENNES 2021 – 2024

Master of Engineering

University of RENNES 2019 – 2021

Bachelor of Engineering

PROGRAMMING & WEB LANGUAGES



HTML



CSS



JS

