

TADOUANLA GUETCHUIN BILLY

STUDENT

HOCHSCHULE RHEIN-WAAL

+491722510579

billytadouanla45@gmail.com

Schill Straße 28, Duisburg 47119

12.09.2000

SUMMARY

Communication and Information Engineering student with a proven ability to bridge hardware and software. My studies and practical experience have equipped me with strong capabilities in embedded systems, digital design. I'm particularly interested in developing low-level firmware and IoT applications, with a track record of applying my skills in microprocessor implementation, wireless communication, and signal processing. Eager to contribute my expertise in a challenging technical role.

PROGRAMMING KNOWLEDGE

- **C, C++, Assembly:** Experienced in embedded systems development, including bare-metal programming, driver development (GPIO, SPI, I2C, UART), as well as real time operating system (FREERTOS).

Worked with various microcontrollers, including ESP32, ATmega328P, and STM32.

Here's a link to an embedded project featuring the ATmega328P microcontroller.

<https://github.com/billchris717/Remote-controlled-LED-dot-matrix-displays-implementation>.

- **python, micro-python:** Experienced in IoT and embedded development for sensor data acquisition, manipulation and analysis. MicroPython deployed on microcontrollers (ESP32) for device firmware, wireless connectivity, serial communication, and leveraging Python for host-side data visualization.
- **SystemVerilog:** Experience in FPGA-based digital design, leveraging SystemVerilog for RTL design and verification. Successfully implemented a MIPS microprocessor on a Digilent Basys3 FPGA board, utilizing the Vivado Design Suite for synthesis, place-and-route, and bitstream generation.
Here's a link to the MIPS single cycle processor implementation.
<https://github.com/billchris717/MIPS-single-cycle-processor>
- **MATLAB:** Familiar in using MATLAB for analog and digital signal processing (DSP), particularly in the development of Software-Defined Radio (SDR) receivers and communication systems.

OTHER IT RELATED SKILLS

- **Linux:** Proficient user of Linux-based operating systems for development environments. Experienced in command-line operations, system navigation, file management, and writing basic Bash scripts for automation and task execution.
- **Git:** Proficient in version control and collaboration using Git. Experienced with repository management, branching strategies and managing pull/merge requests on platforms like GitHub.
- **Scrum:** Familiar with Agile methodologies and Scrum framework for project management.

SOFT SKILLS

- Communication
- Strong problem-solving skills
- Analytical skills

LANGUAGE SKILLS

- English C1 level
- French native speaker
- German B2 level

WORK EXPERIENCE

- **Studitemps:** Gastronomie, Warehouse Assistant 10.2021 - 10.2023
- **EDECKA TRINKGUT:** Order Picker 10.2021 - 10.2023
- **Personel Alliance GmbH:** Waiter 01.2023- Jetzt

EDUCATION

- Hochschule Rhein-Waal • 09/2019- Present

HOBBIES

- Enjoy playing Basketball
- Calisthenics
- Playing pool
- Listening to music