



Vasileios Christofas

Naousa, Greece | billisch2023@gmail.com | (+30)6980978720 |  BillisC |  Vasileios Christofas

Education

Democritus University of Thrace, BS in Computer Science Sept 2021 – Present
• **Thesis:** Design of an edge AI system for automotive vehicles.

Experience

Lead PCB Engineer, Racing Electric Motorsports IHU Oct 2024 – Present
• Working on a PCB that will ensure proper control of the motorcycle's electronics compartment.
• Firmware development for the PCB's Microcontroller Unit (MCU) in a functional safety manner.
Full-stack Web Developer, KIDS SAVE LIVES Oct 2022 – Oct 2024
• Volunteered on a web app called "iSAVELives" that aimed to help people in need.

Publications

Comparative Evaluation between Accelerated RISC-V and ARM AI Inference Machines Sep 2023
Vasileios Christofas, Petros Amanatidis, Dimitris Karampatzakis, Thomas Lagkas, Sotirios K. Goudos, Konstantinos E. Psannis

Projects

Hardware Abstraction Layer Library BillisC/microHAL
Developed a bare-metal abstraction layer for STM32 MCUs to write maintainable projects while keeping total control over the peripherals. Written in low-level C and complies partially with functional safety standards.

CAN Bus Logger
Designed and developed an inexpensive automotive-grade PCB for CAN bus logging on an SD card with a Cortex-M microcontroller. The PCB was designed using KiCAD and the firmware is currently written in C using my HAL.

Plant Protection System Contest Link
Built a smart plant watering and shielding system with two other colleagues and won the 3rd position in the international IEEE SSCS Arduino contest with the topic "Solutions to climate change".

Emulators
In my free time, I used to code accurate CPU emulators for CHIP-8 and Gameboy in C++.

Websites
Along with software development, I'm collaborating on the following websites:
• GRID Infrastructure management system Presentation Link
• Learn SQL with Scratch Website Link

Languages

Greek - Native
English - C2 Proficiency (TIE)

Skills

Software development: C, C++, Python, Java
Web development: HTML, CSS, JS, React, SQL
PCB design: Altium, KiCAD
Interests: Automotive, Photography, AI, IT