

Gilles DEVILLERS

Embedded Systems Engineer

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🌐 gildev.dev

📞 +33 6 ~ ~ ~ ~ ~
📄 github.com/GilDev

👤 23 years old (1998)
📄 linkedin.com/in/gildev

🚗 Driving license

WORK EXPERIENCE

Embedded Systems Engineer Apprentice

📅 September 2020 – ongoing... 📍 [Sectronic](#) 

Electronic products design and manufacturing company. I **design** electronic boards and **develop** the related firmwares for ultra **low power** products.

Embedded Systems Engineer Intern then Apprentice

📅 April 2018 – September 2020 📍 [SES Nouvelle \(Colas\)](#) 

Road signs manufacturing company. I've worked on **dynamic LED signs**, most commonly found on highways. I was then part of the **R&D department**. Designed **electronic boards** (schematics, PCBs, prototypes, tests...), developed **firmwares**, designed proofs of concept and functional **prototypes**, lead **meetings**, **managed** students contracted for an R&D project, worked on the new **architecture** of all the company's dynamic signs, evaluated **new technologies**, **planned** tasks, **managed** projects from start to finish, built **partnerships**...

Web Developer Intern

📅 April 2012 📍 [Creaweb](#) 


Short internship in a website hosting and **designing** company. Designed a backend inventory web app in PHP.

PROJECTS


Many more available on my portfolio:
<https://gildev.dev>

A few personal ones:


Snake Clock (January 2020)

Designed and programmed a watch face for Lenovo's smart devices in Google's new **Flutter framework** for the **international Flutter Clock Challenge** organized by **Google**. Awarded **one of 30 prizes**. 



GDBC's (January 2019)

Designed, engineered and programmed three original electronic clocks. **Third prize** at Monts' Young Inventors Show 2019, bronze medal of the Concours Lépine. Showcased on local TV. 

GDBC (March 2018)

Designed and built a complete computer on breadboards out of dozens of TTL **logic chips**. **First prize** at Monts' Young Inventors Show 2018, **gold medal** of the Concours Lépine. 

IntelliCasier (September 2016)


Designed, engineered and programmed a smart locker for students. **First prize** at Monts' Young Inventors Show 2016, **gold medal and cup** of the Concours Lépine. Also awarded **silver medal** at the Concours Lépine 2016. Showcased on **national TV** and local TV, radio and newspapers.  

A few school ones:

Satellite dish positioning


(September 2017 – April 2017)
Second bachelor year as **team leader**. Engineered and programmed an automatic **positioning system** for a satellite dish located on top of a Civil Security's truck.

Kenbak-1 Replica

(January 2017 – June 2017) 
First bachelor year as **team leader**. Designed, engineered and

programmed a fully working **emulated replica** of the first ever personal computer using **modern hardware**. **First prize** at Monts' Young Inventors Show 2018, **gold medal** of the Concours Lépine.

Braille Printer (2016)

High school as **team leader**. Designed, engineered and programmed a new kind of Braille printer allowing for reduced manufacturing costs. **Second prize** at Monts' Young Inventors Show 2016, **silver medal** of the Concours Lépine. 

EDUCATION

Master in embedded systems

📅 2018 – 2021 📍 [École des Mines de Saint-Étienne](#) 

Engineering diploma (CTI) and apprenticeship at SES Nouvelle & Sectronic. First out of 40 students.


Bachelor in electronics and industrial computing

📅 2016 – 2018 📍 [Technology University of Tours](#) 

Major in embedded systems and programming. Second out of 100 students.

Baccalaureate S SI (sciences & engineering)

📅 2013 – 2016 📍 [Lycée Jacques de Vaucanson](#)

French baccalaureate diploma awarded with honors. Major in digital and computer science. 

SKILLS

Proficient: C, C++, web (HTML5/CSS3, PHP, Bootstrap, Kirby CMS, Slim Framework...), **electronic design** (KiCad, Altium), **embedded programming** (AVR, STM32, PIC, Arduino, ESP...), **CAD** (Fusion 360, 3D printing), **SBC** (Raspberry Pi...), **Linux** (bit of kernel with Buildroot), **macOS**, **Windows**, **git**, **content creation** (videos, posters, slideshows, reports...), **wireless** (XBee³ with ZigBee, DigiMesh...)

Familiar: Python, Dart (Flutter), Qt, **FreeRTOS**, **assembly programming**, **VHDL**, **SQL**, **Lua** (PICO-8, TIC-80, Love2D...)

EVENTS

- **Nuit de l'Info 2017**, as team leader, first local prize
- **Nuit de l'Info 2016**, as team leader, second local prize
- **Monts' Young Inventors Show (solo) 2016** (1st prize), 2018 (1st prize), 2019 (3rd prize) and soon 2021
- **Monts' Young Inventors Show 2016** 2nd prize in group
- **Concours Lépine (solo) 2016**, silver medal

LANGUAGES

French (native)
English (TOEIC 970)
German (basic, A2 certificate)



HOBBIES

- 🔧 **Computing, Electronics, Tech:** many projects on my portfolio, home automation, virtual reality, 3D printing, esoteric programming, member of the **TMC** association
- 🚁 **RC:** building and flying multirotors, mostly FPV
- 🖱️ **Design, UX, ergonomics:** board member of the **Ergodis** association (**Bépo** keyboard layout)
- 🪁 **Kiteboarding:** since 8 years, **windsurfing** in the past
- 🎹 **Music:** piano since 16 years, harmonica, electronic instruments
- 🗣️ **Constructed languages & scripts:** **Toki Pona**, Esperanto
- 📄 **Member & Webmaster** of the **DILGE** association
- 🌀 **Much more:** video making and editing, video streaming, automotive industry, watchmaking, poker, photography, vintage tech, aerospace, board games...