

David DEFENDINI

31 years old 74 Rue Haute, 1000 Bruxelles 0471 93 72 60 david.defendini@gmail.com Driving License

Creative design engineer passionate about transforming innovative ideas into technical solutions, combining software development expertise with curiosity and knowledge sharing.

Technical Skills

Web Development Vue.js, Nuxt.js, Django, Node.js, Express, RESTful APIs, Full Stack Development, Tailwind CSS	DevOps Git, Github Actions, CI/CD Pipelines, Docker, Linux System Administration
Programming Python, JavaScript, PHP, C/C++, C#, Shell Scripting, Matlab, Open CV, QT	Databases PostgreSQL, MongoDB, MySQL
Tools Git, Docker, STM32, PIC microcontrollers, Arduino, Raspberry Pi	

Professional Experience

	Independent Technology Consultant Freelance Consulting Services , Brussels, Belgium	July 2024 - Present
• Network and security systems audit for a renowned Belgian Beaux-arts retail company • Complete web systems overhaul and migration of 60,000 items from legacy data system to PostgreSQL • Technical consulting for emerging creators and makers, developing solutions tailored to their business needs • Open-data analysis and web-based solution development using Brussels, Belgian, and European datasets • HORECA management consulting with Restomax system optimization and implementation • WordPress performance optimization: Improved global performance score from 6.1 to 9.2 through SEO and technical enhancements Core Web Vitals		
	Web Manager and Partner La Marbrée - Jewelry Brand , Brussels, Belgium	October 2024 - active now
• Full-stack development of e-commerce website using Vue.js, Nuxt, and TailwindCSS • Backend implementation with Nuxt's server Nitro and PostgreSQL database • Development of custom order management and logistics system, automated scripts for invoices with pdf text extraction and OCR • Complete deployment and production management		
	Horeca Restaurant Le Ginger , Rue Haute Brussels, Belgium	October 2024 - December 2024
• Responsable de salle, ouverture, entretien et fermeture • Serveur et accueil restaurant de journée et soirée • Serveur au bar de nuit • Gestion de caisse et des stocks		
	Software Sales Engineer Materialise , Leuven, Belgium	February 2024 - June 2024
• Mastered the Additive Manufacturing software suite Magics • Tailored demonstrations for clients and software courses for customers • Pre-sales customer interviews to understand needs and identify solutions		

- **3D printing** for industrial technologies: Metal printing, Ceramics, Resin



Embedded Software Developer and R&D junior Assistant

Powerdale & MOBI Research Group , Brussels Region, Belgium

February 2023 - June 2023

- **Embedded software development** for electric vehicles charging stations at Powerdale
- Software development with **STM32**, **Jira** and **GIT** for CI/CD
- Development for **High power electrical equipment** research
- Technologies: **Python**, **C**, **Modbus**, **TCP/IP**, **Web development**
- **Collaborated with MOBI Research Group at VUB under researcher Mohammed Abdel Monem**
- Developed software solutions for various research projects in sustainable mobility
- Contributed to electric vehicle and charging infrastructure research initiatives



Independent Entrepreneur

stat-discute.fr

January 2021 - September 2022

- **Full-stack development of sports statistics platform with 50 daily active users**
- Initial prototype with **Django** and **Python**, final implementation using **Vue.js** and **MongoDB**
- Frontend development using **Vue.js 3** and **Tailwind CSS**
- Backend architecture with **Node.js**, **Express**, and **RESTful APIs**
- Automated data collection using **Python** scraping scripts



Networks Prototyping Engineer

Ericsson France , Innovation Lab, Massy, France

January 2018 - June 2020

- Main animator and engineer of the **corporate fablab**
- Led the **Pollubike project**: embedded device measuring urban pollutants data
- Designed hardware and software for **geolocation** and **pollution measurement**
- Developed **web solutions** and **SQL databases** for data visualization
- Created **4.0 factory simulation** using **Unity** and **C#** for Ericsson networks use-cases



System and Requirements Engineer

Renault France , Technocentre, Guyancourt, France

October 2016 - October 2017

- Assistant to hybrid electronics engineering leader for **safety** and **requirements**
- Managed technical requirements for Renault and Nissan **hybrid/electric vehicles** safety
- Developed safety validation software for robotic gearbox sensors using **Python** and **Matlab**
- Maintained technical communication between Renault and Nissan requirements and safety teams



Mechatronics Engineer

AI Mergence , Usine IO, Paris, France

October 2015 - October 2016

- Led design of **surveillance autonomous robot** for consumers and professionals
- Developed software for **autonomous navigation** using **Python**, **C++** with **OpenCV**
- Created robot prototypes using **CAD software** and computer-controlled machinery
- Implemented electrical design and motor control using **Arduino**, **STM32**, and **Raspberry Pi**
- Worked with **GPU computing** using **Nvidia Jetson** and **Odroid** cards



Research Intern

Jozef Stefan Institute , Ljubljana, Slovenia

April 2015 - July 2015

- Worked on **robotic arms** learning algorithms
- Assisted researcher with thesis work in **mechatronics**
- Gained experience in research methodologies and practices

Education

Embedded Electronics Systems

2017 - 2020

CFAI Mécavenir - Paris Saclay University , Mantes La Ville, France
Master Diploma awarded

Mechatronics

2015 - 2017

ISTY – Paris Saclay University , Mantes La Ville, France
Two years out of three

Electrical Engineering

2013 - 2015

IUT de Cachan (Paris Saclay University) , Cachan, France
Technician Diploma awarded

Languages

French:	Native	English:	Professional (TOEIC: 980)
Spanish:	Fluent	Dutch:	Basic (A2 certification)
Russian:	Conversational (6 years)		

About Me

Sports & Outdoor Activities

Rock climbing, hiking, and tennis enthusiast.

Cultural Interests

Regular museum visitor with a particular interest in arts and archaeology. Avid reader of science fiction and crime novels.

Continuous Learning

Documentary enthusiast and passionate about ancient civilizations and languages.

Life Experiences

Passionate about gastronomy and cooking. Keen train traveler, exploring new cultures and practicing foreign languages.