

Alejandro Vara

Lawyer | SysAdmin | Systems Developer and Designer

English: Intermediate / Advanced level



Alejandro Vara

ID: 21.519.103

Age: 55 years

University Degree: Lawyer

Technical Studies: Network Administrator

Languages: English - Intermediate/Advanced

[Versión Español](#)

Contact: alejandrojmvara@gmail.com

Phone: (221) 463-5746

Professional Profile

I am a professional with a solid career in the legal field and extensive technical experience in systems administration, infrastructure, and software development. I combine knowledge of law, computing, and management to create comprehensive, efficient, and secure solutions, focusing on the resolution of complex problems.

Since the 1990s, I have worked with Unix/Linux and Windows environments, managing enterprise servers and designing hybrid architectures for artificial intelligence, automation, and virtualization projects. I possess broad knowledge in networking, Docker, virtualization (KVM, VMware), and server management for Dell PowerEdge and HP ProLiant systems.

In recent years, I have focused on developing and optimizing distributed systems, modern web interfaces (HTML5, CSS3, JavaScript -conceptual-, Bootstrap), and interactive platforms integrating local and remote AI.

With a curious mind and skilled hands, I apply my experience in carpentry, lathe work, CNC machining, and milling to the design and prototyping of mechanical and electronic systems,

complementing my engineering and hardware development skills.

Desde	Hasta	Juzgado / Área
20-02-1990	21-04-1993	Juzg. Federal 2. Dr. Ricardo Ferrer.
21-04-1993	10-07-1996	Juzg. Criminal 2. Dr. Braulio A. Fonseca.
10-07-1996	16-03-1999	Tribunal Menores 3. Dra. Irma Lima.
16-03-1999	09-09-2002	Mandamientos Y notificaciones.
09-09-2002	Actualidad	Ejercicio profesional de la abogacia.

Private Sector

- Lawyer - Specialized in Criminal Law
- Consultant in Electronic and IT Security — Segurama S.R.L.
- Senior Network Administrator — Newscorp S.A.
(Argentina-based company, not affiliated with the international News Corporation)
- Over the years, I have participated in various IT and electronic security projects focused on early vulnerability detection, software and hardware debugging.
(Subject to corporate confidentiality agreements.)

Specialized Areas Outside Law

- Linux system and multiprocessor server administration.
- Design of hybrid AI environments (local + network).
- Automation, monitoring, and deployment with Docker and Netdata.
- Web development focused on performance and cross-platform compatibility.
- Management and customization of Debian, Ubuntu Server, and derivatives.
- Integration of control and telemetry solutions into specialized hardware.
- Design of mechanical and electronic systems (actuators, controllers, UAVs).
- Security, vulnerability analysis, and local network administration.

- Intermediate-level electronic design, enabling the development of CNC boards, voltage adapters (LPT), stepper motor controllers, laser drivers, etc.

Personal Preferences

I prefer to work directly in Linux environments via SSH using lightweight editors such as **nano**, due to the speed, clarity, and simplicity they provide for reading and modifying code. This approach gives me full control over the environment, avoids unnecessary GUI distractions, and facilitates task automation. Unlike heavier IDEs such as Visual Studio, VS Code, or Laravel , using nano enhances efficiency, reduces resource consumption, and lets me focus on the logic of the code without external dependencies. Additionally, command-line experience strengthens my ability to manage multiple servers or projects simultaneously, improving productivity in professional settings.

Network Infrastructure

I manage and maintain a robust pre-production server infrastructure composed of:

- 1 × Dell PowerEdge 1950
- 2 × Dell PowerEdge R710
- 2 × HPE Proliant Gen8 380

This infrastructure allows for the deployment and testing of distributed systems, hybrid AI applications, virtualization, and testing environments in a safe and efficient manner, ensuring stability and scalability prior to production implementation.

Notable Experience

- Development of a hybrid AI assistant in a local environment with a multi-user web interface.
- Implementation of flybarless variable-pitch control systems with pneumatic actuators.

- Optimization of legacy servers (Dell 1950, Dell R710, Proliant DL140 G1, Sun Fire X2200 M2) for AI computing tasks.
- Advanced Docker configuration with custom networks and performance tuning.
- Visual and functional customization of the GRUB boot environment and terminal.
- Installation, fine-tuning, and validation of the ROCm (Radeon Open Compute Platform) environment on AMD RX580 hardware, in SMP systems with multiple Xeon CPUs without using passthrough or GPU virtualization.
- Compilation and kernel module tuning for ROCm driver compatibility in legacy environments.
- Manual integration of the ROCm stack, correcting dependencies and achieving full compute-mode device recognition.
- Parallel performance optimization for coordinating distributed CPU-GPU workloads without interference from the graphical subsystem.
- Deployment of a local AI environment over ROCm using lightweight models (q4, q5) combined with Ollama/Open WebUI for hybrid testing.
- Validation and benchmarking of AI workloads, achieving stable performance and controlled temperatures in continuous operation.

Technical Skills

- Languages: Python (basic), Bash, JavaScript (basic), PHP, HTML/CSS
- Frameworks: Flask (basic/conceptual), React (basic/conceptual), Bootstrap
- Operating Systems: Linux, Debian, Ubuntu, Windows Server
- Virtualization: Docker, KVM, VMware
- Databases: SQLite, PostgreSQL, MariaDB/MySQL
- Networking & Security: SSH, firewalls, subnetting, VPN tunnels
- Office Suite: Microsoft Word, Excel (intermediate/advanced), Access
- Electronic Design: KiCad, Altium Designer, Eagle
- Development Environments: Visual Studio Code
- Design & 3D Modeling: Rhinoceros 3D, RhinoCAM, Corel Draw
- CNC & CAM: Mach3, GRBL, UGS/UGSPlatform, ArtCAM, Inkscape, Aspire

Personal Profile

I combine technical precision with strategic thinking. My legal background provides a structured and methodical approach to solving technical challenges, while my passion for technology drives me to constantly explore new approaches and tools.

With a collaborative and self-taught mindset, I seek to contribute to projects where productivity, adaptability, and innovation are valued. I am currently orienting my career toward the technology sector, with the goal of gradually transitioning away from the legal profession.

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