

# Victor Hugo D'Ávila

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 <https://portfolio.vhtel.eng.br/>

## Summary

Engineer and technology enthusiast, I have been trained in the technological area since the technical course (2007). I graduated in Telecommunications Engineering in 2014, I took a specialization in Software Engineering (2019) and recently completed a Masters in Telecommunications (2021). I have 7 years of experience in coordinating multidisciplinary teams and one of my greatest satisfactions is precisely being able to leverage the qualities of a team.

During my career I had the opportunity to take several courses related to network management and operation, systems automation and virtualization, IT governance and management, and datacenter infrastructure project management. I believe that these qualifications, together with my basic training, provided me with the conditions to always deliver integrated, optimized and innovative solutions.

Throughout my professional career I have always sought to participate in volunteer activities, research, development and extension projects. I believe that such initiatives have given me a broader view of society and current technological developments. Among the actions that I highlight are the research and development projects carried out in the Master's Degree in Telecommunications. In this role I realized that there is a lot of room for innovations related to software, services, operations and network infrastructure, whether physical or in the cloud.

Another performance that I highlight is my participation in offering computer courses for young people, adults and seniors. An experience that makes me reflect a lot on the impacts of technology on society, its accessibility and how these services can be better developed and structured. I consider this experience to be unique, as it helps me to develop communication, integration and people management skills.

## Experience

### Telecommunications Engineer Consultant

Self-employed

Jan 2015 - Present (7 years +)

My vocation for technology is motivated by an intense curiosity to develop practical solutions to everyday problems. That's why, in some free moments, I develop small technological projects and carry out consultancy in the areas that I have skill.

Project: Vehicle tracking solution. In this project I carried out the integration of a vehicle tracking solution, based on low-cost M2M communication, which uses the GSM/3G/4G mobile network. An application and a database are hosted in the cloud, the entire implementation is based on open source applications.

Skills/technologies used:

- Google Cloud Platform (GCP): VM management, firewall and storage rules,
- AWS: EC2, VPC, S3 and CloudFront management.
- Open Source Software
- GSM/3G/4G Communication

- Connectivity Management Platform (CMP), site survey, signal prediction of regional operators.

## Information Technology System Analyst

IFMG Campus Ouro Branco

Jun 2021 - Present (7 months +)

In the current position of Information Technology Infrastructure Analyst, I continue to have challenges related to the development of cloud-based services and solutions, with high availability and following standards of excellence in cybersecurity.

- Cloud Infrastructure: Solutions based on Google Cloud Platform (GCP), Solutions based on AWS.
- Learning Management Environments (LMS): Moodle, Google Classroom.
- Cybersecurity: Development of IT practices based on LGPD and Compliance with ISO 27001.
- Account and access management: Google Workspace, Office 365, Active Directory,
- Network storage: Truenas/Freenas, ZFS file system.
- ICT assets: DELL Servers, HP Servers.

## Information Technology Coordinator

IFMG Campus Ouro Branco

Apr 2015 - Jun 2021 (6 years 3 months)

Working in the position of Coordinator of an IT team, I had some challenges that required creativity and dialogue to be overcome. One of the last challenges I faced was to establish virtual work and learning environments for an audience of more than a thousand students and a hundred employees. By circumventing policies that restrict technological investments, but with the support of a highly qualified and committed team, it was possible to establish safe and accessible services to the entire community.

Among other actions, the responsibility for dealing with budget planning, team and project management was constructive. Developed interpersonal skills, experience with public procurement/bidding and prioritization of demands.

Among the various practices, technologies and platforms that make up the routine of an ICT sector at the institution, I can say that I had more contact and expertise in:

- Management: Agile methodologies, ITIL v3, COBIT, Project management.
- Virtualization and automation technologies: VMWare, KVM/QEMU, Ansible solutions.
- Cybersecurity: Fortinet Firewall and its solutions, Fortinet Analyzer, pfSense Firewall and its solutions, OpenVPN, WireGuard, Bitdefender Endpoint and GravityZone, Veeam Backup and its solutions.
- L2/L3 networks: Routing protocols (OSPF, EIGRP, BGP), Layer 2 protocols (VLANs, STP, LACP), 802.1X, DHCP, VPN.
- Management of Linux and Windows servers and workstations
- Windows Server based solutions: WDS, WSUS, AD Domain, DNS, Access Policies and GPOs, Bitlocker.
- SIEM: Zabbix, Grafana.
- Collaborative platforms: Atlassian Confluence, Git/GitLab/GitHub, MS Teams.

## Information Technology Technician

IFMG Campus Ouro Branco

Sep 2014 - Apr 2015 (8 months)

Acting as an Information Technology Technician, it was possible to deal with many challenges, but those of a practical nature that defined the institution's first IT infrastructure policies stand out. The practices, technologies and platforms that I had the most contact with at that time were:

- L1/L2/L3 Networks: Network and Structured Cabling Projects, Midsize Data Center Projects, Management and Configuration of Cisco 1900 Routers, Management and Configuration of Switches HP, Configuration Management of Mikrotik Routers, Access Point and ZoneDirector Ruckus.
- Project and Installation of IP Telephony: Asterisk solutions, Khomp solutions, Intelbrás and Grandstream IP telephones, Inter-campi interconnection project via IP telephony network (fone@RNP).
- Project and Installation of CCTV Solutions: Hikvision and Intelbrás IP Cameras, Intelbrás NVR, Open NVR ZoneMinder.



## **Information Technology Technician**

**Prefeitura Municipal de Ouro Branco**

Nov 2011 - Sep 2014 (2 years 11 months)

In my first professional experience, I had the opportunity to develop skills in customer service, user support and maintenance of assets and networks.

- User training in the use of office tools (word, excel, power point)
- Computer maintenance
- User support
- L1/L2/L3 networks: Structured cabling, Switches Configuration, Mikrotik Routers Configuration.

## **Education**



### **Instituto Nacional de Telecomunicações - Inatel**

**Master's degree, Telecommunications Engineering**

2017 - 2021

The course was challenging in many ways. During this period I had the opportunity to expand my technical knowledge, research and development, and use of technologies in a way that would integrate experimental technological solutions to social and even innovative demands, some of these main actions are related to the following projects/technologies:

- Development of research in relation to new Internet architectures, in particular, in the NovaGenesis project and in the evaluation of future network architecture.
- Development of automated network and computing performance assessment methods in physical, virtual and container environments.
- Evaluation of network services with different resources, in different topologies and scenarios.
- Use and evaluation of network services in virtualized experimentation environments: GENI, FIBER (RNP).
- Study and evaluation of Software Defined Radio (SDR) and Software Defined Network (SDN) concepts.
- Development of data center, security and software solutions for research applications related to fifth generation (5G) communications projects and satellite communications.



### **The College of Saint Rose**

Jul 2014 - Jul 2014



## **Universidade Federal de São João del-Rei - UFSJ**

Bachelor's degree, Telecommunications Engineering

2008 - 2014

The graduation course was a period in which I had the opportunity to develop solid knowledge of telecommunications, technological infrastructure, statistics, mathematics, physics and science. As an end of course project I had the opportunity to deepen my knowledge of wireless communication and signal prediction, and IP telephony (VoIP) based on Asterisk.



## **Colégio e Faculdade Kennedy**

Technician, Informatics

2005 - 2006

## **Licenses & Certifications**



**Radio Operator - Anatel**



**Engineer - Crea-MG Oficial**

## **Skills**

Technology Solutions • Engineering • English • Research • Telco • Web Services • Tracking Systems • Virtualization • IP Networking • Cloud Computing

## **Honors & Awards**



**Menção Honrosa no 12º Simpósio Brasileiro de Computação Ubíqua e Pervasiva (SBCUP) - XL Congresso da Sociedade Brasileira de Computação (CSBC 2020)**

Nov 2020

Honorable mention for the work entitled Content Distribution via 5G Hybrid Terrestrial/Satellite Connection.