

CAREER SYNTHESIS

PERSONAL INFORMATION

Carlos E. Colmenares A.

ccolmenaresa@gmail.com

+(58) 414 324 63 96



If would you like to see my CV on LinkedIn, please click on following link:

<https://www.linkedin.com/in/carlos-colmenares-a-5a717375>

ACADEMIC PROFILE

I got an electronic engineer degree from National Experimental Polytechnic University “Antonio José de Sucre”, Venezuela, 1981. As a complement to my academic studies, I have taken twenty-five specialization courses, mainly all of them, in IBM’s mainframe technologies and networking areas.

And in this respect, it is worth mentioning, several of these courses were taken at IBM’s learning center in the USA, getting the following certifications: CICS/VSE Internals, ACF/VTAM Internals, ACF/VTAM Performance & Tuning, SQL for DB2 & ISA for DB2, and CA-Dispatch, which was taken at Computer Associates, Inc., (before Applied Data Research, Inc.) headquarter training center, in the USA too; the rest in Venezuela.

I have been as a listener in two international congresses of technology (in USA, 1988 and 1989); likewise, I was a guest speaker in three technology’s conferences (Caracas Hilton Hotel, Venezuela 1984, 1985 and 1986), speaking on “tuning and capacity planning techniques on IBM mainframes environment” topics.

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SUMMARY

- I. 40+ years of solid experience leading high tech projects in IBM's mainframes systems, electronic security systems, microwave telecommunication networks deployments and, web software development.
- II. My latest twenty years I developed and implemented a lot of projects in the industrial electronic security and microwave telecommunication network systems deployment areas
- III. Since early 2020 (beginning of the pandemic), I have been formally training and working as a full stack web developer; developing systems, both front-end and back-end.
- IV. I'm formed with high-level technical skills in electronic security technologies, such as IP video systems, analog video systems, and video streaming wireless transmission. Also in access control technologies, such as electronic control panels or PLCs, biometric systems, turnstile and barrier gates devices, and so on.
- V. My management skill have been oriented to do the following tasks: generate client needs, make sale efforts (include oral and written presentations), choose channels and/or solution provider, project design, conceptual & detail engineering, skilled worker team command, training and supporting post-sale, etc.
- VI. My soft skill are oriented to result and objectives, communication ability, teamwork awareness, solid disposition to take on difficult tasks, and/or the resolution of technical problems. Also in developing strong channels sales and solution provider's relationship, both national as international levels. Always focus and oriented to establish client's long-time relationships.

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WORK EXPERIENCE

My former professional career could be defined in three main stages.

First: I was an IBM system programmer (or senior system software engineer) of two very important banks of those times: “BND” (1977-1981) and “Banco Maracaibo” (1982-1984).

Second: As system software manager (the last post) of “Sistema de Computación Ábaco” (1985-1991). This company was the “Computer Associates Inc.” formal commercial representative in Venezuela, who was the system software sale worldwide leadership for that moment.

One of my main functions was to develop the consulting services area oriented to IBM’s clients with mainframe computer technologies. The all company’s goals were successfully met, rendering these services overseas, specifically in Colombia (the Invercredito Bank) and Costa Rica (National Registry).

At follow brief resume of all companies who hired our consulting services:

<u>Customer’s name</u>	<u>Duration</u>	<u>Customer’s name</u>	<u>Duration</u>
1. Banco Mi Casa EAP	6 months	11. Banco Interbank	4 years
2. Banco Venezolana EAP	7 years	12. Ministerio de Infraestructura	8 months
3. Banco La Vivienda EAP	1 year	13. Banco Principal	6 months
4. Latinoamericana de Seguros	6 months	14. Banco Fivenez	4 years
5. Lagoven	3 months	15. Banco Hipotecario de Venezuela	9 years
6. Procter & Gamble de Venezuela	4 years	16. Aluminios del Caroní -Alcasa	3 years
7. Interamericana de Aluminios	3 years	17. Banco Exterior	6 months

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8.Banco Inverbanco	1 year	18.Empresa 1BC –RCTV	9 months
9.Banco Caracas	2 months	19.CANTV	2 weeks
10.Registro Nacional de Costa Rica	2 weeks	20.Banco Invercredito de Colombia	1 week

Third: From 1991-2020, Co-founder of two technology and consulting ventures: “**CYCS Computing Specialist**” (1991-2011) and “**CYCS Ingeniería e Instalaciones**”; <https://cycs.netlify.app> - (2012-2020). I have been worked in that stage as project engineer and IT consultant mainly oriented to electronic security and wireless network systems areas, although I still provide specialized services to some legacy IBM’s clients who still are using mainframe platforms.

During this stage, I have been contracted by a lot big companies, to develop high-level technical projects.

At follow a summary of all companies who hired our consulting services.

<u>Date</u>	<u>Customer’s name</u>	<u>Project</u>
2017	CARGILL de Venezuela	Design and Installation of integral Control Access system on its own 16 industrial factories/plants spread out that country. This big and very important project was based on Chiyu Technologies.
2017	Torre Torreon	Design and Installation of CCTV video surveillance system and electric fences to provide optimum protection to indoor areas and perimeter walls.
2016	CEGASA	Design and installation of an IP video surveillance system and network wireless infrastructure (5GHz) based on Airlive Technologies. The system is composed of 16 IP cameras, 13 Microwave radios, switch PoE, NVR, Mobile surveillance, remote monitoring, and so on.

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2013	Ministerio de Turismo	FITVEN 2013. Design and installation of an IP video surveillance system in former EXPO tourism in the “Five White Eagle” sports complex, located in Merida, Venezuela. The project was based on Airlive technologies and compose of 11 PTZ, 5 Fixed domes, and N.Power as Backbone and link microwave radios.
2011-2012	Ministerio Comunicación e Información	Design, and installation of an integral video surveillance system based on Hikvision solution (64 cameras + 4 DVRs)
2009-2012	Torre ABA	Design, and installation of an integral electronic security system (including: 48 cameras + Geovision software system + Rosslare control access solutions)
2009-2010	Sisven de Venezuela	Video surveillance system integrator (design & installation over two hundred cameras of CCTV)
2009	C.A. Metro de Caracas	Design, and installation of an integral video surveillance system integrator (16 cameras + Geovision IP video server)
2008-2009	Ministerio Relaciones Exteriores	Design, and installation of an integral electronic security system (standard DVR video system & RBH-2000 control access)
2008	Franquicias LOCATEL	Design, and installation of an integral electronic security system (130 cameras + standard DVR & RBH-2000 soft control access)
2006	Instituto Vialidad del Estado Vargas	Installation of a complete indoor telephony system with wireless link access to provide PSTN service.
2006	Policía Municipal del Estado Vargas	Installation of a complete indoor telephony system with wireless link access to provide PSTN service.
2004-2007	Banco Hipotecario Latinoamericana	Engineering, and installation of a wireless Internet access backhaul to connect its branches (Airlive’s microwave radios)
2004-2005	Guardia Nacional de Venezuela	Re-engineering of the telecommunication platform, from Spain technology manufacturer to TETRA platform. Was a very high-level technical project.
2004	Apostadero Naval de Turiamo	Design an IP wireless link to connect two military bases to share broadband internet access between them
2003	DIEX	Design the telecommunication platform. Included: services braches, airports, seaports.

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2001-2004	C-COM de Venezuela	Technical consulting on installation of Motorola's canopy radios in its client (Microstar)
2000	Banco Fondo Común	Design, and installation of a DPL link to connect two banks
2000	Comsat de Venezuela	Technical consulting on installation of VSAT links for MIRANDA EAP (Bank). This project included deployments of eight clear-path channels.

TECHNICAL SKILLS

ELECTRONIC SECURITY SYSTEMS

❖ Video surveillance systems:

Include IP cameras, analog cameras (CCTV), DVR, NDVR, TCP/IP and standalone software, central monitoring room implementation, decentralized monitoring scheme, monitoring, and video recorder policies, sensors and alarms definition as part of complete video surveillance system environment, video and data wireless transmission, and so on.

Proficient in the following manufacturer or solution providers:

AIRLIVE	GEOVISION	HIKVISION	AvTECH
DAHUA	NUUO	SMARTSIGHT	

❖ Access Control Systems:

Include types of equipment and solutions such as Electronic control panels, card readers, biometric systems (character, pin or fingerprint), turnstile devices, electrical and

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electronic accessories & pieces of equipment interconnections, installation and implementation of software database, support to client departments, specifically security depth in access control policies and human resources in charge and maintenance of access control database, and so on.

Proficient in the following manufacturer or solution providers:

ROSSLARE	CHIYU	LENEL	VERITRAX
RBH-2000	INTEGRA32	KERY	HIKVISION

WIRELESS NETWORKS

❖ Transport Technologies:

20+ years designing and implementing wireless infrastructure, including site surveys, equipment's installation, SNMP configuration, Core & LAN network like routing, switching, spanning tree, loop prevention, VLAN, QoS, network tools & sniffers, and so on.

Include:

WiFi	WiMAX	PtPT	PtMpt
VSAT	FRAME RELAY	ATM	TCP/IP
ADSL	VPN	LRE	TETRA
SDLC	SNA		

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Proficient in the following manufacturer or solution providers:

AIRLIVE	PROXIM	TRANGO	UBIQUITY
MOTOROLA	CAMBIUM NETWORKS	VIDEO COMMUNICATIONS TRANSMITTERS	MIKROTIK
ALLIED TELESIS	CISCO	TRENDNET	

Proficient in the following activities:

Site survey:

Feasibility study of radio links (microwave), feasibility study to connect to the electrical power supply, determinate the exiting and proposal wireless or optical fiber connection, frequency sweeps, determinate the line tower view position, line of sight, coverage area, and others microwave topics. Propose the new equipment to install, check all the existing and the proposal things like existing and proposal canalization, grounding system.

Engineering Standard:

Development in the entire engineering standard about each customer requirement; propose the microwave part, support other departments inside the company about any doubt regarding a project or technical question, training the subcontractors about the technical part of the project will start and coaching the new incoming staff.

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IBM's MAINFRAME TECHNOLOGIES

❖ Computer Series:

S/390 series (9672 G5 R36)	ES/9000 series (9021, 9121 & 9221)	S/370 (3090, 4381 & 4341)	AS/400 & R/390
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❖ Operating Systems:

MVS/ESA	VM/ESA	VSE/ESA	OS/390
z/OS			

❖ Software:

TLPARS	LANRES	CTCA	OSA-2
OSA-express	ESCON	FICON	ICF
PARALLEL SYSPLEX	TCP/IP FOR VSE & VM	ASSEMBLER	COBOL
PL/1	VSAM	JES2	TSO
ACF/POWER	ACF/ICCF	DB2	EREP
RACF	ICKDSF	DFSORT	DITTO
APPN	APPC	CICS/MRO	T2.1 CASUAL CONNECTION
ACF/VTAM	ACF/NCP	CICS/ESA	CICS TS FOR VSE

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WEB TECHNOLOGIES

HTML	CSS	JAVASCRIPT	PYTHON
NODE	REACT	EXPRESS	PWA
MySQL	MongoDB	BOOTSTRAP	FIGMA
GIT	GITHUB		

- A lot libraries, small Frameworks, and utilities of this complex ecosystem technologies
- Windows Operating Systems & Linux Operating Systems.

My advances in this area could be watch in the following link:

<https://github.com/cycscarlos>