



April 11, 2025

Consent - WFEO Executive Council National Member Representative

I, Marcos Vinicio Vargas Vargas, Electrical Engineer duly affiliated to the Colegio Federado de Ingenieros y de Arquitectos de Costa Rica – CFIA, express my consent to be nominated by this organization to opt for the position of National Member Representative at the Executive Council of the World Federation of Engineering Organizations-WFEO.



Eng. Marcos Vinicio Vargas Vargas
CFIA, Costa Rica



Contiguo al Indoor Club de Curridabat, San José, Costa Rica

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RESUME



Name:	Marcos Vinicio Vargas Vargas
Profession	Electric Engineer
Place and date of birth:	San José, November 25, 1961
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Marital Status:	Married
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EDUCATION:

Primary Education:	Escuela José Ana Marín, San Isidro de Coronado. Primary Education
High School Education:	Liceo de Coronado. Basic General Education Colegio Vocacional Monseñor Sanabria. Diversified Technical Education and Intermediate Technician in Electrical Engineering.
Higher Education:	Universidad de Costa Rica. Bachelor's degree in Electrical Engineering, emphasizing Electronics and Telecommunications. Complete Licenciatura Program in Electrical Engineering. Thesis: Implementation of the Hardware of a PABX Plant.

INTERNATIONAL STUDIES:

Hispano-American Association of Research Centers and Telecommunications Companies, AHCJET. Alcatel Standart Eléctrica, Madrid-Spain. Degree: Specialization in Digital Switching Systems.

PROFESSIONAL TRAINING:

1989-1990	Fycsa-Alcatel Standart Eléctrica. System Software Designers Course 12 and System Operation and Maintenance Course 12.
1989-1990:	Specialization Course on Digital Switching Systems, in Madrid, Spain, under the auspices of Alcatel Standart Eléctrica and the Hispano-American Association of Telecommunications Research and Studies Centers (AHCJET). The period was 18 months, which was of two phases: theoretical and practical, carrying out development projects for different Telecommunications Administrations, supported by the IBM and VAX environment.
1993-1994:	New Technologies Course, Lannion, France. The course content covered X.25, ATM, GSM, SDH, new OCB283 R20 system facilities.
1995-1996:	Integrated Network and Service Management Course GIRS-CITEL-OAS, Santa Catarina, Brazil, related to ITU TNM recommendations.
1996-1997:	Operation and Maintenance Course, Alcatel IFA Training Institute of the OCB 283 system.

- 1997-1999: Smart Grid Platform Course, received at the Alcatel IFA Training Institute SSP,SCP,SMP).
- 1997-1998: Smart Grid Platform Course, Alcatel IFA Training Institute.
- Operation and Maintenance of the CDOT SBM System Course, CDOT New Delhi India.

PROFESSIONAL EXPERIENCE:

- November 1979 to date: 44 years of service at the Instituto Costarricense de Electricidad (ICE)
- 1979-1980: Collaborates in the installation and commissioning of ARF102 Electromechanical Switching equipment, such as Telephone Lines, Keyboard Telephone Equipment, routing, and so on.
- 1980-1981: Collaborates in the installation, testing, and commissioning of the first Digital Transit Telephone Exchange AXE-10 System.
- 1981-1982: In charge of routing ARF102 Switchboards for the interconnection of the Tandem Digital AXE-10 Switchboard.
- 1982-1983: In charge of the installation, testing, and commissioning of the first E10B Subscriber Telephone Exchange (San Pedro Digital).
- Collaborates in the process made by the ICE of the SPD Central acceptance tests to the ALCATEL-CIT Company of France.
- 1983-1984: In charge of the installation, testing and commissioning of the Remote Subscriber Units in San Ramón de Tres Ríos. San José and Tres Ríos.
- 1984-1985: Coordinates the reception tests of the OED Digital Center by the ICE to the company ALCATEL-CIT.
- In charge of the installation of the link cable between the Distributors of the OED Digital Exchange and the MDF (Main Distribution Frame) of the ARF 102 West Exchange.
- 1985-1986: Responsible for the expansion of the Exchange Tandem Digital AXE-10, by increasing traffic capacity and, expanding the Digital Group Selector.
- 1986-1987: Coordinates the routes associated with the Digital Exchanges of San Pedro, Oeste, Desamparados, Puntarenas with all the Centers of the National Telecommunications System.
- 1987-1988: Head of the CPA Section of the Directorate of Telecommunications Construction. In charge of the installation of Digital Centers throughout the country.
- 1988-1989: Responsible for the installation, testing and commissioning of the AXE-10 International Digital Center.
- Responsible for installation, testing, and commissioning of the 18000 Telephone Lines Project to expand the E10B Exchanges installed in the country.

- 1990-1991: Responsible of Tender Project 166-90 for the installation of DMS 10 Digital Mobile Exchanges awarded to the Northern Telecom Company.
- Responsible for the interconnection of the DMS 10 Digital Mobile Exchanges to the National Telecommunications System.
- 1991-1992: Responsible for the installation of 25000 Telephone Lines and P11 level of all E10B Exchanges. The upgrading consisted of Hardware and Software modifications to provide the environment of signage No. 7 and improve the Plants' facilities.
- Collaborator in the Technical-Economic Study Group and recommendation of the Award of Private Tender 87-91.
- Responsible for installation and commissioning of Tender 87-91 corresponding to 20000 Telephone Lines and 3000 Transit Circuits.
- 1992-1993: Responsible for the 70.5 KI installation and commissioning project of Alcatel's OCB283 System.
- Instructor of the E10B basic level course taught at the Sub-directorate of Telecommunications Training of ICE.
- 1993-1994: Responsible for the installation and commissioning of the 4 KL of GX5000 Mitel System.
- Responsible for the installation and commissioning of the 41.5 KL of Alcatel OCB283 System.
- Responsible for the commissioning of Tender 256-93, fourteen thousand digital lines of Equitel SPX-2000 System.
- 1994-1995: Responsible for the commissioning to expand 2606 lines in 10 GX-5000 Mitel power plants.
- 1995-1996: Responsible for the 636 MIC + 10 Kline expansion project of Alcatel's OCB283 system.
- Responsible for the 65.6 Kline expansion project, II Licit expansion. 5206 OCB283 system.
- Responsible for the installation and commissioning of 6 Klines of Mitel's GX5000 system.
- 1996-1997: Responsible for the expansion and commissioning project of 55 K OCB283 lines awarded to Alcatel Company.
- Responsible for the expansion and commissioning of 47 K OCB283 lines purchased from Alcatel.
- Responsible for the expansion of 4000 SPX2000-O/C lines 100008 purchased to Equitel Company of Brazil.
- Responsible for the expansion of 4000 GX5000 O/C 100007 lines, purchased to Mitel Company from Canada.
- Responsible for the expansion of 24 DMS-10 Klines purchased to NORTEL.

Responsible for the expansion and commissioning of 35 KI. EWSD, purchased to SIEMENS.

Responsible for the expansion and commissioning of 46 KI.OCB-283 purchased to Alcatel.

Responsible for the expansion and commissioning of 41 KI. DMS-100 and DMS-10, purchased to NORTEL.

Responsible for the expansion and commissioning of the Smart Grid, Services PRM, PCC, UAN.

Responsible for the expansion and commissioning of CTS1 International Transit Center, Lic 5999.

Responsible for the commissioning of CDOT-SBM Exchange donated by the Hindu Government to ICE.

2000-2007

Responsible for the Project Execution area of the UEN Switching process Development and Execution of Projects for expansion projects of Alcatel, Siemens, Nortel and Ericsson Digital Power Plants.

Responsible for the process of supervision and commissioning of the Advanced Internet network based on tender 7075.

Responsible for supervision and commissioning process of the SAMSUNG DSLAM access platforms based on tender 7076.

Collaborator in the acceptance testing process of the CORE of the GSM network of 400 K lines awarded to the company Alcatel.

Collaborator in the acceptance testing process of the CORE of the GSM network of 600 K lines awarded to Ericsson

Responsible for the operating lease contract for the expansion project of 151 K lines and 400 K lines awarded to Alcatel, Siemens, Nortel and Ericsson.

2008-2012

Responsible of the Sub-Directorate for the Execution of DRS-DEP projects and the DBA-DDIBA which were in charge of External Works by Administration Plant, External Works by Contract Plant and Internal Plant.

Responsible for the execution of infrastructure works for access network and transmission network projects (IMAP, 50%IMAP, IPTV-IMAP, NAM, EMD, EMRI, PARABA, Wimax.

Responsible for the execution of infrastructure works for New Generation network projects to provide VoIP service.

Responsible for the supervision of infrastructure works for GSM and 3G Mobile Network projects.

Responsible for the interconnection of mobile networks to the PSTN, PLMN and RAI for Mobile Network projects.

Responsible for the interconnection of operators with authorization granted by SUTEL to those of mobile, fixed, and ICE data networks based on standardized protocols.

2013-2014	<p>Advisor to the Director of the Network Management and Maintenance Division for the migration of the Metro Ethernet network and the migration of Telephone Exchanges.</p> <p>Responsible for the DIBA-DBA Broadband Infrastructure Directorate for the planning, design and execution of fixed access broadband network solutions.</p>
2015-2020	Responsible for the Management, Execution, and Delivery of DEERR-DI Network Resources to coordinate the installation, construction, and implementations of fixed network solutions (FTTX, business services) and wireless (3G, LTE and GL1800)
2021-2023	Responsible for the Execution and Delivery of the DEERR-DI Network Resources and the Construction Directorate of the DPI and DDCR to coordinate the installation, construction of implementations of fixed network solutions (FTTX, business services) and wireless (3G, LTE and GL1800, among others).

PUBLICATIONS:

Interactive System for Digital Exchanges E10B. Electrical Engineering Graduation Project. U.C.R.

Implementation of the hardware of a PABX Telephone Exchange. Graduation Project. Licenciatura degree in Electrical Engineering.