Camilo Younes-Velosa

ELECTRICAL ENGINEER AND LAWYER

Electrical Engineer, Lawyer, MSc, and PhD. More than 24 years of experience in teaching and researching in energy policy and regulation, engineering education, electromagnetics, and atmospheric electrification. 14 years of experience in university administration and management. High leadership and teamwork skills, excellent communication and management abilities with multidisciplinary working groups. Over 100 scientific publications in the field of knowledge.

ACADEMIC QUALIFICATIONS

- (2023). Master's Degree in Energy Regulation, Universidad Externado de Colombia.
- (2014). Lawyer, Universidad de Manizales.
- (2006). PhD in Engineering - Electrical Engineering Area (Thesis with honors), Universidad Nacional de Colombia.
- (2002). Master's Degree in Electrical Engineering with emphasis on High Voltage Engineering, Universidad Nacional de Colombia.
- (1999). Electrical Engineer, Universidad Nacional de Colombia.

MEMBERSHIPS AND RECOGNITIONS

- Corresponding member of the Colombian Academy of Exact, Physical, and Natural Sciences.
- Member of the executive committee of the Water-Energy-Food (WEF nexus) alliance. Pennsylvania State University (link: website).
- Member of the IEEE.
- Member of the steering committee and organizer of the International Symposium on Power Quality - SICEL (link: website).
- Member of CIGRE Colombia.

WORKING EXPERIENCE

Vice-rector for Research

Universidad Nacional de Colombia, June 2021 - May 2024

- Responsible for overseeing research, extension, and innovation policy of Universidad Nacional de Colombia, whithin 9 campuses, over 3,000 professors, 60,000 students, 106 undergraduate programs, and more than 350 graduate programs nationwide.
- Management of resources amounting to over 500 billion pesos per year.

Vice-rector

Universidad Nacional de Colombia, Manizales campus, 2018-2021

- Responsible for the administration of the headquarters, with more than 400 professors, 5,500 students, 400 administrative staff members, 11 undergraduate programs, and 35 graduate programs.
- Responsible for the administration of public resources for more than 135 billion pesos per year.
- Responsible for the proper functioning of academic and research activities on campus.

Dean

Universidad Nacional de Colombia, Manizales campus 2010-2016

- Responsible for the administration of the School of Engineering and Architecture. Responsible for the administration of public resources for more than 22 billion pesos per year.
- Responsible for the proper functioning of academic and research activities of the School of Engineering and Architecture.

Director of academic affairs

Universidad Nacional de Colombia, Manizales campus 2008-2010

- Responsible for the development and implementation of the academic reform at the Universidad Nacional de Colombia in 11 undergraduate programs and more than 20 graduate programs.

CAMILO YOUNES VELOSA

LANGUAGE

- Advanced English
- Spanish (native language)

CONTACT

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Cell: +57 300 2062498

Linkedin

Google Scholar

WORKING EXPERIENCE

Professor and researcher

Universidad Nacional de Colombia, 2006 - present

- Co-director of the Environmental, Energy, and Education Policy-E3P researching group (2011-2022), and currently co-director.
- Senior Researcher at Minciencias, with over 100 scientific publications in the research areas.
- University teaching experience for over 21 years in the areas of expertise.

University of Arkansas, 2016 - 2017.

- Postdoctoral fellowship as a Research Scholar in Electric Power Systems Regulation.
- Developer and instructor of the course "Electric Power Regulations and Markets" in the Master of Science in Electrical Engineering program.

SCIENTIFIC ARTICLES

1. Torres, H., Perez, E., Younes, C., Aranguren, D., Montaña, J., & Herrera, J. (2015). Contribution to lightning parameters study based on some American Tropical Regions observations. IEEE Journal of selected topics in applied earth observations and remote sensing, 8(8), 4086-4093.

2. Gallego, L. E., Duarte, O., Torres, H., Vargas, M., Montana, J., Pérez, E., ... & Younes, C. (2004). Lightning risk assessment using fuzzy logic. Journal of Electrostatics, 60(2-4), 233-239.

3. Younes, C., Escobar, D. A., & Holguín, J. M. (2016). Equidad, accesibilidad y transporte. Aplicación explicativa mediante un análisis de accesibilidad al sector universitario de manizales (Colombia). Información tecnológica, 27(3), 107-118.

4. Moncada, J., Jaramillo, J. J., Higuita, J. C., Younes, C., & Cardona, C. A. (2013). Production of bioethanol using Chlorella vulgaris cake: a technoeconomic and environmental assessment in the colombian context. Industrial & engineering chemistry research, 52(47), 16786-16794.

5.Herrera, J., Younes, C., & Porras, L. (2018). Cloud-to-ground lightning activity in Colombia: A 14-year study using lightning location system data. Atmospheric Research, 203, 164-174.

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BOOKS

1. García, D. A. E., Urrea, S. C., & Velosa, C. Y. (2022). Correlación entre el desarrollo de la infraestructura vial y el conflicto armado: Primer paso hacia la consolidación de una paz estable y duradera. Editorial Universidad Nacional de Colombia,ISBN: 978-958-794-846-2.

2. Cañas, J. P. D., Velosa, C. Y., & Giraldo, L. M. Z. (2016). Cinismo en la política forestal colombiana: el fracaso de la propuesta de ley forestal de 2006. Editorial Universidad Nacional de Colombia, ISBN: 978-958-775-904-4.

3. Younes, C., Cardona, C. A., Valencia, M.J. (2013). Cálculo De Gases De Efecto Invernadero En Procesos Químicos Y Biotecnológicos Con Énfasis En Cadenas De Suministro. Editorial Universidad Nacional De Colombia, ISBN: 978-958-761-480-0 , Colombia.

RESEARCH PROJECTS

1. Co-creation Laboratory for the appropriation of STI (Science, Technology, and Innovation) for the transformation of the country's energy sector, through a collaborative and active participation exercise of various social groups (productive sector, government, community, and academia), allowing the generation of comprehensive strategies for the appropriation and empowerment of the knowledge society. Strategy for the transformation of the Colombian energy sector in the horizon of 2030 - Energética 2030, April 2018 to June 2023 (63 months). Code: 38945

2. Experimental Characterization of Parameters of Atmospheric Electrical Discharges Based on Electromagnetic Field Measurements and High-Speed Video Recording in Manizales - Caldas, November 2022-November 2023 (12 months). Code: 56401

3. Development of an information system for the prediction and issuance of alarms in the face of electrical storms for the city of Manizales, June 2019-September 2020 (15 months). Code: 44063

4. Experimental platform for systematic measurement of atmospheric electrical discharge parameters, 2017-2018 (14 months). Code: 39057

5. Evaluation of the urban effect on lightning parameters. Colombian case, 2013-2015 (12 months). Code: 28173