



**Mr. Ashok Kumar Basa,
Candidate for election to the position of President (Elect), WFEO**

Dear Colleagues,

At the outset, I wish you all a Happy, Healthy and Prosperous New Year - 2023. Encouraged by friends and considering my background, I offer myself as a candidate for election to the position of President (Elect). In this regard, I am to submit the following:

I have been involved with WFEO since 2011 and am currently the Executive Vice President, WFEO, Chair of the Strategic Planning Committee, Member of the Finance Committee, and the WFEO-UN Relations Committee. I was President, Institution of Engineers (India) - IEI in 2014. I served in the Council of IEI for many years including as a member of the Finance Committee (FC) which provided me with a deep understanding of the financial management in a large professional institution.

I have also worked closely with the International Engineering Alliance (IEA) during 2014-2018 and the Federation of Engineering Institutions of Asia and Pacific (FEIAP) from 2014 to 2016.

As a member of the WFEO Governance Committee, I was involved in drafting of the modified rules of procedure. Being a member of the WFEO STC Review Committee, I had the opportunity to understand how the Standing Technical Committees (STCs) function to achieve different Sustainable Development Goals (SDGs), thereby strengthening the position of WFEO in UNESCO. Similarly, as a member of the WFEO-UN Relations Committee, I actively participated in improving the role of WFEO in UN. My journey into WFEO started as a member of the Disaster Risk Management (DRM) Committee in 2011 which continued till 2022. During this time, I have presented the importance of DRM in different international forums. As the Chair of the Sub Committee on Capacity Building of DRM Committee, I was a speaker in UN-STI (Science, Technology and Innovation) forum in May 2022. I have also served as National Member, Executive Council, WFEO from 2015 to 2019. I was a member of the Committee on Information and Communication (CIC) as well as a member of the Advisory Committee to the WFEO President during 2019-2021. As the current Chair of the Strategic Planning Committee (2021-2023), I have been involved in suggesting how to enhance the visibility of WFEO based on the Strategic Planning of 2019-2023. Thus, I am privileged to have a fair acquaintance related to the activities of WFEO, being associated with it for more than a decade.

The WFEO “**Engineering 2030**” - plan aims to advance the achievement of UN Sustainable Development Goals (SDGs) through Engineering. I will carry forward the activities of WFEO to fulfil the objectives of Strategic Plan and the Engineering 2030 Plan, so that the importance of Engineering will be recognized further during the implementation of solutions to achieve the UN SDGs, especially in engaging with the UN and celebrating World Engineering Day each year.

Disaster, particularly Natural Disaster cannot be prevented, but its effects can be reduced by proper disaster management strategies. A single natural disaster can break the economic backbone of a country, particularly in case of underdeveloped and developing nations. Many countries including India are now leading in the disaster management arena and their success stories have to be shared with other nations. We would focus on Sendai Framework of Disaster Risk Reduction (2015-2030) and ensure that the same is adopted by the member countries.

Addressing the issues of climate change, eradication of poverty, availability of affordable and clean energy, clean water and sanitation, feeding the teeming millions, sustainable development and bridging the “knowledge divide” are the challenges faced by engineers today that are to be solved in a time-bound manner. Besides, the global pandemic has exposed the inadequate health care system in all the countries. We have to deal with all these in WFEO through suitable mechanisms. This will ensure that our standing in UNESCO and the UN will be further enhanced.

Above all, as Executive Vice President, WFEO & as a Past President of Institution of Engineers (India), I understand the importance of good governance and leadership to make a difference. Hence, good governance and leadership will be my motto. Let us join hands so that our goal “Engineering for all” is achieved in the interest of our society.

I solicit your unflinching support for my candidature as President (Elect), WFEO.

Ashok Kumar Basa

President, Institution of Engineers (India), 2014

National Member, World Federation of Engineering Organizations (2015-2019)

Member, Advisory Committee to President WFEO (2019-2021)

Executive Vice President, WFEO (2021-2025)

Mr. Ashok Kumar Basa is a highly accomplished civil engineer and entrepreneur who has achieved significant recognition and success throughout his impressive career. In 1980, he graduated at the top of his class in Civil Engineering from Regional Engineering College Rourkela, now known as the National Institute of Technology (NIT) Rourkela, in Odisha, India. He was awarded the Best All-Rounder Gold Medal for his exceptional performance and academic achievement across various branches of Engineering.

Despite being selected for the prestigious Indian Railway Service due to his high rank in the 1981 Combined Engineering Services Examination conducted by the Union Public Service Commission, Government of India, Mr. Basa chose instead to pursue his entrepreneurial ambitions, co-founding a company with two of his engineering batch mates, focused on designing and constructing various types of structures.

Mr. Basa has become widely recognized as one of India's leading structural engineers, with specialized expertise in bridge design, hydraulic structures, and rehabilitation of structures. His impressive portfolio includes numerous high-profile projects, such as the 1800m-long flyover at Cuttack with Reinforced Cement Concrete, the 2000m-long Mahanadi Bridge with Pre-Stressed Concrete (PSC), the 1400m-long third Railway Bridge on the Brahmani River in Odisha with a steel superstructure, and the rehabilitation of the 1400m-long first Railway Bridge on the same river, replacing its old steel structure with a new steel superstructure. Mr. Basa has also designed and built the 254m-long pedestrian Suspension Bridge in a heavy cyclonic wind zone, and the Jawaharlal Nehru Indoor Stadium in Cuttack, Odisha, in South Eastern India.

With almost four decades of varied and extensive experience, Mr. Basa has served as a member of a number of technical committees in India, including the Bridges Specifications and Standards (BSS) Committee of the Indian Roads Congress (IRC), the apex body responsible for formulating codes of practice for bridges in India. He is also a member of various committees related to foundation and superstructure codes of practices for Civil Engineering Structures of the Bureau of Indian Standards (BIS).

In recognition of his outstanding achievements, Mr. Basa was awarded the prestigious Confederation of British Industry (CBI) scholarship in 1990, during which he spent more than a year specializing in bridge design at Sir Frederick Snow and Partners Ltd, London. During his stay there, he was involved in designing bridges that were subsequently constructed near London. He has received numerous other awards, including the coveted Indian Roads Congress Medal for Best Paper twice. Mr. Basa has also published several papers in national and

international journals and jointly edited a book on "Rehabilitation and Retrofitting of Structures" published by Macmillan for the Institution of Engineers (India). In 2014, he received the 20th S.B. Joshi Memorial Award from the Alumni Association of College of Engineering Pune, a heritage engineering college established in 1854 in western India for his contribution to Structural Engineering. He has also delivered the S.B. Joshi Memorial Lecture, a well-known endowment lecture in India. Additionally, Mr. Basa delivered the First S.G. Gogoi Memorial Lecture in 2011, conducted by the Alumni Association of Assam Engineering College, Guwahati, Assam, in northeast India, and the Second Jai Krishna Memorial Lecture in 2017 during the National Convention of Civil Engineering in Ahmedabad, western India.

Mr. Ashok Kumar Basa is a highly esteemed civil engineer and a Fellow of The Institution of Engineers (India) (IEI). With an illustrious career spanning several decades, Mr. Basa has made significant contributions to the field of engineering both at the national and international levels.

In his capacity as Chairman of the Civil Engineering Division Board of IEI, Mr. Basa led the organization successfully from 2007 to 2011. He also served as a member of the Finance Committee, IEI from 2006 to 2014. In recognition of his accomplishments and dedication, Mr. Basa was elected President of Institution of Engineers, India in September 2013 and served as its President in 2014.

Mr. Basa's international engagements have been equally impressive. He was an active member of the Federation of Engineering Institution of Asia and Pacific (FEIAP), wherein he served as the Chair of the Committee on Information & Communication in 2014 and as a member of the Disaster Risk Management Committee from 2014 to 2016. Mr. Basa attended several meetings of FEIAP, held in Jakarta (2013), Beijing (2014), Taipei (2015), and Perth (2016).

Mr. Basa's involvement with the International Engineering Alliance (IEA) has been extensive. He attended Annual Meetings of IEA in Wellington, New Zealand (2014), Istanbul, Turkey (2015), and London, United Kingdom (2018). He also chaired a Committee with members from the UK and Ireland appointed by IEA in 2017-18 for reviewing the performance of a country for giving permission by IEA to be a member of IntPE for a period of six years.

Mr. Basa has been part of many Indian delegations to different countries, including a delegation led by the Hon'ble President of India to Moscow for technological exchange with Russia in 2015. He has also been an active member of the Disaster Risk Management (DRM) Committee of the World Federation of Engineering Organizations (WFEO) since 2011. Mr. Basa has highlighted different areas of Disaster Management as a Speaker in several international platforms, including the General Assembly of WFEO in Geneva in 2011, the World Engineering Forum in 2012 held in Slovenia, in Kyoto University (2014), in the General Assembly of WFEO in Kyoto (2015), in Lima (Peru-2016), , in the Global Engineering Congress in 2018 held in Institution of Civil Engineers (ICE) London, jointly Organised by ICE (UK) for its completion of 200 years and WFEO for its completion of 50 years of existence, in World Engineering Forum in Slovenia in 2019, in the General Assembly of WFEO, Melbourne (2019). He was also a

speaker at UN-STI (Science, Technology and Innovation) forum in the conference of "Engineering Resilience in Disaster Risk Management for Sustainable Development" in May 2022.

Mr. Basa's contributions to his profession have not gone unnoticed. He was invited as a keynote speaker by the Korean Society of Civil Engineers in October 2014 and was also invited as a speaker at the Great Design Workshop organized by the Myanmar Engineering Society in Yangon in November 2014. Mr. Basa's extensive experience and contributions to the field of engineering were recognized when he was elected as a National Member of the Executive Council of WFEO in the General Assembly held in Kyoto (Japan) in November-December 2015 for the period 2015-19.

During his tenure, Mr. Basa served as a member of several important committees, including the Governance Committee, Committee involved in reviewing the Standing Technical Committee (STC), WFEO-UN Relations Committee, Disaster Risk Management Committee, and Committee on Information and Communication (CIC). He played an active role in all these committees, and his contributions were widely appreciated.

Mr. Basa's dedication to his profession and his outstanding leadership skills have led to his appointment as the Executive Vice-President, WFEO (Session 2021-25). He is also the Chairman of the Strategic Planning Committee, WFEO, and a member of the WFEO Finance Committee as well as the Member, WURC-WFEO.

Thus, Mr. Basa has made significant contributions both nationally and internationally. His expertise in designing and constructing structures, and in leading professional organizations such as The Institution of Engineers (India) is unparalleled. His extensive and intensive experience in the field of engineering has made him a respected authority and a sought-after mentor for young engineering professionals. His dedication to advancing the profession and commitment to delivering quality work is an inspiration to all who work with him. In short, Mr. Ashok Kumar Basa is an asset to the engineering community, and his contributions have helped shape the industry's trajectory towards excellence.

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CONSIGLIO NAZIONALE DEGLI INGEGNERI



*presso il
Ministero della Giustizia*



STATEMENT ANIA LOPEZ

I am pleased to present my candidacy for the election to the position of President-Elect of the World Federation of Engineering Organizations.

I have a Master's Degree in Mechanical Engineering, graduated both in Italy and in Cuba. In 2022 I gained a place as a PhD student in Management Engineering at the Department of Computer, Automatic and Management Engineering "Antonio Ruberti" of the University of Rome "La Sapienza". I am currently Consultant as a project manager by the Lazio Region in Rome, collaborating with the European Project PNRR "Next Generation EU".

From 2011 to 2022 I was a Councilor of the National Council of Engineers (CNI), a member of the Board of Directors of the Foundation of the National Council of Engineers of Italy and a member of UNI (technical committee).

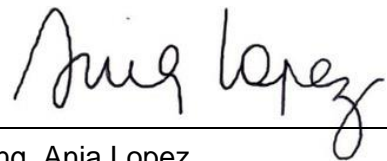
Since 2013 I have been a member of the WFEO, participating in the meetings of the Board of Directors and the General Assembly. In 2019 I was elected as a national member of the Executive Council in Melbourne Australia, serving a full term from 2019-2023. Since 2020 I have been the Chair of the WFEO Awards Committee, and a member of the Committee of Support and Review Group. I am also a member of two standing committees: WiE Women in Engineering and Energy.

Recently I initiated the proposal for a joint WFEO-FAO award and participated in the official WFEO delegation to FAO visiting the Director General. I continue to engage with FAO for a collaborative partnership with WFEO for future projects with WFEO, and I am a member of the working group and CNI delegate for FAO projects in WFEO.

If elected, I will

- Work for the WFEO to become a global opinion leader in everything related to engineering, from climate change, to energy, to artificial intelligence, participating in roundtables, projects, conferences, events with the highest exponents of the main international organizations.
- Activate channels with the European Union, where the WFEO can participate and access projects and funding for member countries, for the service of the community.
- Develop new synergies through thematic groups within international bodies to give support to activities concerning all engineering sectors. Including e.g. FAO Project.
- Increase the number of member countries through a welcoming policy, creating new synergies through collaborations from a strategic point of view and the experts of each member state.
- Create projects for young people through collaboration with the university world, launching dedicated projects to raise awareness of the importance of engineering in society.
- Working in projects, launching a theme related with the ONU 2030 Agenda SDGs, where all Standing Committees are involved, with new proposals and challenges, collecting them in a special edition of a document to be shared with all member countries.
- Develop projects for capacity building in Africa, Asia and Latin America.
- Engage with the United Nations and other UN agencies in Europe, Africa and Asia.

Best regards,



eng. Ania Lopez
National Member of WFEO
Executive Council
Consiglio Nazionale degli Ingegneri



CONSIGLIO NAZIONALE
DEGLI INGEGNERI



presso il
Ministero della Giustizia

Ania LOPEZ
Mechanical Engineer

wfeo@anialopez.com

National Member of Executive Council of WFEO
Consiglio Nazionale degli Ingegneri ITALIA



Institutional International Activities **World Federation Engineers Organization**

2013 (STC)Energy and Women

2019 Member Executive Council of WFEO

2020 Chairwoman of Award Committee of WFEO-UNESCO

2020 Component of Strategic Planning Committee

2022 Delegation WFEO-FAO and Chair of Task Force
of WFEO-FAO MoU

International Conference/Journal:

Since I joined WFEO, I have participated as a speaker at many international conferences about Agenda 2030 SDG, including Lima in 2016, London and Melbourne in 2019 and Madrid 2023, on a number of topics including "Energy Approach in Italian resilient cities" & "Sustainable Cities Intelligent Transportation". In 2022 I published an article Impact of Climate Change on SIDS -What Engineering Solutions? The relationship between The Climate Smart Agriculture (CSA) and #SDG Agenda 2030 in the new approach in the Framework FAO (2022-2031) JOURNAL of the Institution of Engineers Mauritius

Institutional National Activities **Consiglio Nazionale degli Ingegneri.**

Ministero di Giustizia Italia

2011-2022 Member of Executive Council of CNI

2013-2022 Member of Board of directors Foundation CNI

Dialogue with the political world (parliament) for the approval of the legislative instruments concerning the profession of Engineers. Participation in the technical round tables of various Ministries with technical proposals regarding the approval of procedures and decrees aimed at carrying out the activity of engineers in all sectors (civil-environmental, industrial and ICT). Relations with international organizations (WFEO, FEANI, ECCE) for the safeguarding of the profession of engineers and professional and cultural collation and exchange. Legislative role. First female councillor in the history of the CNI.

EDUCATION

ITALY

2022-2025 (ongoing) PhD: Industrial and Management Engineering Università Roma "La Sapienza" Renewable Energy Agrovoltaic

2004-2010 Bachelor Degree / Master of Science in Mechanical Engineering Università degli Studi di Roma "La Sapienza"

CUBA

1992-1997 Master of Science in Mechanical Engineering "Instituto Superior Politécnico "José Antonio Echeverría" Havana (CUBA).

1990-1992: Special School: Scientific High School Preuniversitario Vocacional de Ciencias Exactas "Vladimir I. Lenin" (CUBA). Specialization: Mathematics.

Experience

2021 – Current Project Manager for the Lazio Region (Italian Government) for Renewable Energy, including obtaining authorizations for wind farm, geothermal plant and solar panel installations.

2002 – 2021 Facility manager for private companies in energy sector (schools, hospitals, office building) including facilities maintenance, infrastructure activities and technically innovative systems to reduce carbon footprint, preparation of the design and cost estimate of infrastructural projects to maintain and increase the efficiency and monitor the execution of works on building site, manage the technical contracts for electrical installations, Heating, Ventilation and Air-Conditioning (HVAC) systems, security systems, antennas and plumbing Participation in tenders with the Italian government.

1997-2002 Experience as an Engineer at the Ministry of Labor and Ministry of Foreign Trade (CUBA)

Languages: Fluent in Spanish, Italian, and English.

March 2023



Personal Message

from Er. TAN Seng Chuan for the Candidacy of President-elect of WFEO

Dear colleagues,

As the world continues its post-COVID-19 recovery, industries, businesses and governments are focusing on building resilience, reinventing operations and infrastructure models and rethinking sustainability. This has opened up many opportunities for the engineering community to embrace and capitalise on, as well as exciting career prospects in engineering.

Amidst such a transformation, it is crucial to advance key fundamentals in engineering to ensure that the profession remains forefront, relevant and vibrant. With nearly 40 years of experience as an engineer, I hope to play a part during this unprecedented time, to serve and contribute to the global engineering community.

I have been a volunteer in the engineering fraternity since graduation, contributing to various institutions, affiliations and networks of engineering professionals both in Singapore and internationally. I am passionate about several aspects of engineering and am confident about my ability to build on my past accomplishments in these areas to make meaningful contributions:

A. Raising Engineering Education Standards in Developing Countries

- I have been involved in the assessment of university engineering programmes since Singapore became a full signatory of the Washington Accord in 2006.
- During my presidency term in the Federation of Engineering Institutions for Asia and the Pacific (FEIAP), we initiated the “FEIAP Engineering Education Guideline” to assist developing countries to improve engineering education to meet international standards.
- I had also served on the Advisory Board for the Faculty of Engineering of the National University of Singapore (NUS) and as a member of the Nanyang Technological University (NTU) Curriculum Review Committee. In these roles, I have provided my industry perspectives on global trends in engineering education.
- Having served in the International Engineering Alliance (IEA) Governing Board, I could facilitate collaborations with IEA to improve engineering education for our members.

B. Capacity-Building in Creating Career Progression Pathway for Mobility of Engineers


- As engineering solutions become more complex, engineering professionals must work together to provide sustainable solutions. The Institution of Engineers, Singapore (IES), in partnership with its government and other stakeholders, has initiated a chartership scheme in Singapore to benchmark and recognise engineering professionals based on their competency level to serve various industry needs. The scheme enables technicians to potentially grow their career pathway towards becoming Chartered Engineering Technicians and Technologists and Chartered Engineers by going through rigorous assessment, mastery training and continuing education programmes. As Chairman of the Chartered Engineering Board, I am able to share the approach with WFEO in raising competency level and upskilling through comprehensive professional certification in the overall engineering ecosystem.
- Having served as the Chairman of Asia-Pacific Economy Corporation (APEC) Engineers Coordinating Committee and the IEA Governing Board, I understand the challenges faced by engineering professionals especially in benchmarking the engineering education in the university globally and cross-border mobility. I am a strong advocate of regional and international mobility and have made multiple efforts including establishing Mutual Recognition Agreements and conducting dialogues with various international and government bodies to promote the mobility of engineering professionals.

C. Driving Sustainable Development Goals (SDGs) and Building Climate Resilience

- Having been involved in various committees including Governance Committee, Strategic Planning Committee, Engineering and the Environment and Anti-Corruption Standing Technical Committees and WFEO-UN Relations Committee; as well as having contributed in the Executive Council, as Advisor to the President and the Treasurer and servicing in the Executive Board, I have gained excellent understanding and knowledge in building resilience for the organisation and continue the good works done by predecessors.
- Having been certified as a Sustainability Professional and practised sustainability in the industry for more than 20 years, I am able to share my experience and knowledge in the latest trends in climate action and sustainability strategy with the colleagues in WFEO to strengthen the STC sustainability objectives and building the resilience in WFEO.

D. Improve the Financial Health of WFEO

- Having served as the Treasurer of WFEO for the last four years, I possess a good understanding of the financial situation of WFEO, and the challenges faced by the members especially during this post-pandemic period. Through my network and involvement with several international organisations, I am able to make valuable



recommendations to improve the processes and frameworks to help members overcome their challenges and improve the organisation's financial system.

E. Promote WFEO in the Global Network

- WFEO has made significant progress in improving its visibility and being the voice of engineers globally. I will continue such efforts to promote WFEO in the global network. Apart from working with the United Nations (UN) organisations, we will also reach out to other international organisations such as World Bank, Asia Development Bank, Asia Infrastructure Investment Band, African Development Bank, European Union and OECD.
- Increasing the membership is important for WFEO to be the voice for engineers in the UN and ensure the global reach of the organisation. I am an advocate for new members through regional organisations and international associations to strengthen our national, affiliate and international membership and associates.

It has been a great joy and privilege to serve WFEO thus far and I eagerly look forward to continuing serving on the Executive Board and Council. With many years of experience and good rapport with the community, I am committed to contribute positively and meaningfully in the coming years for the benefit of the global engineering community.

Hence, with the support of IES and partners in WFEO, I respectfully submit my candidacy for the position of President-elect of WFEO.

Thank you.

Er. Seng-Chuan TAN

Emeritus President, The Institution of Engineers, Singapore

Executive Vice President, World Federation of Engineering Organisations





ER. TAN SENG-CHUAN

- EMERITUS PRESIDENT, THE INSTITUTION OF ENGINEERS, SINGAPORE (IES)
- EXECUTIVE VICE PRESIDENT, WORLD FEDERATION OF ENGINEERING ORGANISATIONS (WEFEO)

Biography:

Er. Seng-Chuan TAN attained a Bachelor of Engineering (Civil Engineering) in 1983 and Master of Science (Building Science) in 1991 from the National University of Singapore (NUS). He is a registered Professional Engineer (Civil) and Chartered Engineer (Environment & Water) in Singapore; a registered Chartered Professional Engineer (Civil) in Australia, an ASEAN Chartered Professional Engineer and a registered APEC Engineer. He is also a GRI Certified Sustainability Professional and an ISO14064 Greenhouse Gas (GHG) Accounting Lead Verifier.

His has accumulated extensive professional experience in sustainability, environmental, engineering and programme management across the sectors of sustainability, climate change, environmental, water and wastewater, energy & power, built environment, chemical & petrochemical and oil & gas; as well as in industrial plant, mass rapid transit and other infrastructure projects in the Asia Pacific region.

Er. Tan held various positions in the early part of his career and rose to the rank of Assistant General Manager in Jurong Engineering Ltd (a subsidiary of Ishikawajima-harima Heavy Industries) in 1988. In 2000, he joined CH2MHILL Singapore Pte Ltd as their Chief Engineer and was involved in two of the company's prestigious projects in Singapore: the Deep Tunnel Sewerage System and the Changi Water Reclamation Plant. In 2010, he was appointed the Regional Director where he was responsible for the operation and development of the environmental services business in Asia Pacific.

In 2015, he joined Ramboll Environ (Asia Pacific) as their Regional Managing Director to lead the development and implementation of company strategies across 12 offices in the Asia Pacific. Presently, he serves as Chairman and Managing Director of TEMBUSU Asia Consulting Pte Ltd, a leading sustainability consultancy company in Asia focusing on the development of the United Nations' Sustainable Development Goals.

Er. Tan served as the President of The Institution of Engineers, Singapore (IES) from 2006 to 2008; and as the President of the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) from 2007 to 2011. He served as the Vice President of the World Federation of Engineering

Organizations (WFEO) from 2011 to 2015, Treasurer and Executive Board Member of WFEO from 2017 to 2021, Chairman of the Asia Pacific Economic Cooperation (APEC) Engineers Coordinating Committee and Governing Board Member of the International Engineering Alliance (IEA) Governing Board from 2015 to 2019. In 2019, Er. Tan served as a member of the Nanyang Technological University (NTU) Curriculum Review Committee for Bachelor of Engineering (Environmental Engineering) and Member of the NUS Faculty Advisory Board for the Faculty of Engineering.

Er. Tan is now the Emeritus President of IES, Executive Vice President of WFEO, Chairman of Chartered Engineering Board of Singapore, Chairman of PUB Active, Beautiful, Clean Waters Professional Monitoring Committee, Member of the Industry Advisory Committee for Sustainability Education Committee at the Singapore Institute of Technology (SIT) and Member of the NTU Advisory Committee for Bachelor of Engineering (Environmental Engineering) programme.

Er. Tan was conferred the title of ASEAN Federation of Engineering Organisations Honorary Fellow in 2009, IES Honorary Fellow in 2015 and Engineers Australia Honorary Fellow in 2016. He was bestowed the FEIAP Engineer of the Year Award in 2017 and the NUS Distinguished Engineering Alumni Award in 2019.

Date: March 2023