

Dr Fathy is a seasoned digital transformation and technology executive, with 20+ years of technology and regulatory experience in ICT, leading large-scale digital initiatives that span digital technology, and policy spaces, leveraging strategic vision and communication skills to influence C-level decision-making while driving innovative risk-based solutions that enhance business capabilities in complex, global organizations. He is a highly experienced leader with strong competencies in corporate governance, technology and product development, risk oversight, financial oversight, cyber-risk oversight, talent oversight, strategy & planning, corporate transformation, and digital transformation.

At NTRA, he has spearheaded teams tackling core regulatory functions including strategy and market development, market analysis, economic analysis, cost-benefit analysis for rule makings, regulatory impact assessment, standardization and technical aspects, international policies, cooperation and partnerships, research & development, and Industry 4.0 planning. Currently, he is providing oversight and advisory expertise on the strategic development and implementation of secured and trustworthy digital and ICT policy enhancement programs, action plans, including the development of secured and trustworthy digital transformation solutions and services including engagements in key vertical segments (e.g. smart cities, smart mobility solutions and intelligent transportation systems, digital services infrastructure and AI). He is overseeing the development of enhanced cybersecurity compliance frameworks to ensure market alignment with applicable laws, regulations, and industry standards with respect to cybersecurity and digital transformation to address risks and to promote a resilient and trustworthy ICT digital infrastructure.

Over the span of his career, Dr Fathy has overseen the development and implementation of large-scale projects with multiple stakeholders in areas like smart cities, smart mobility solutions and intelligent transportation systems, augmented and virtual reality, digital agriculture, smart water management, aerospace, energy metering and distribution, robotics, embedded systems, IoT, and AI. He has done advisory work on advanced ICT/Digital solutions design and standards-based implementations with an emphasis on security, interoperability, and integration.

Dr Fathy is actively engaged in standardization in the IEEE and ITU. In 2021, he has joined the IEEE SASB and has served since on many of its standing committees (IEEE SA NesCom, AudCom, and ProCom). Furthermore, Fathy has been serving in several key roles in the ITU for more than 20 years. He has served in the ITU Council, led his teams in Plenipotentiary Conferences, TSAG, TDAG, Study and Focus Groups. He is currently the Vice-Chairman of United for Smart Sustainable Cities (U4SSC), and Co-Chairman of ITU-T/FAO Focus Group on Artificial Intelligence & IoT for Digital Agriculture (FG- AI4A). The U4SSC is a global UN initiative coordinated by ITU, UNECE and UN-Habitat, and supported by 16 UN agencies, to exchange information and build partnerships to guide cities and communities in achieving the UN Sustainable Development Goals. He also serves as the Chairman of ITU-T SG20 Regional Group African, whereby he is leading African standardization and smart city development efforts to promote sustainability, interoperability and economic development across the region.

Dr Fathy has a PhD in Electronics & Communications (cognitive radio systems) and a Masters in crypto. He has numerous publications in scholarly journals and conferences, and he's the author of one book in electronics. He's a Visiting Fellow in several Egyptian and UK based academic institutions whereby he is giving specialized lectures and advice on cutting-edge research directions in IoT, M2M, and Industrial IoT, etc. with a focus on standardization architectural innovations, cybersecurity, AI, analytics & services and integrated secured solutions' design for specific verticals.