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Biographies

Dr. Tayeb Brahimi, Assistant Professor at the Department of Electrical and Computer Engineering (ECE), at Effat University, Jeddah, KSA, received his Ph.D. (1992) and Master Degree (1987) from University of Montreal, Canada. He has worked as Research Scientist under Bombardier Chair/Canadair from 1992-1998. In 1998, he joined Jeppesen DataPlan in California, then Peregrine System as a Technical Support Analyst, Quality Assurance Engineer, and Consultant for Electronic data interchange (EDI) in Dallas, Texas. Dr. Tayeb Brahimi has been a consultant at IONPARA Inc. for wind energy and aeronautics. He published more than 80 articles in scientific journals, international conferences, on novel methodologies of teaching and learning, renewable energy, sustainability, and machine learning. Among other activities, he is a reviewer for many international journals, invited speaker by the Japan Society of Mechanical Engineering, the Gulf Educational Conference as well as the Int. Conference on Eng. Education & Research. He also participated in Public Debate on Energy organized by the Government of Quebec, Canada. Current research interest relates to renewable energy (solar, wind, wave, and waste to energy), sustainability, machine learning, use of technology to support learning, engineering education, MOOCs, and Makerspace. Other areas of interest include integrating innovative Islamic heritage into the STEM.

Dr. Mohammed Abdul Majid received an M.Sc. degree in Electrical Engineering from King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia, in 2002. In 2011, he was awarded his Ph.D. degree in Electronic and Electrical Engineering from the University of Sheffield in the U.K. From 2002-2008, he was a Lecturer at KFUPM, where he was involved in modeling and simulation of anti-resonant reflecting optical waveguides. He was an EPSRC Prize Postdoctoral Fellow (2011-2012) at The University of Sheffield and Postdoctoral Research Fellow (2012-2015) at the King Abdullah University of Science and Technology (KAUST). He is currently in the Electrical and Computer Engineering department at Effat University, where he is engaged in applying semiconductor quantum dot/quantum well devices to applications such as renewable energy, biomedical imaging, optical communications to solid-state lighting.

Charles Rajesh Kumar. J received the Bachelor of Engineering degree in Electronics and Instrumentation Engineering from the Madurai Kamaraj University, India, the Master of Engineering degree in Electronics & Communication Engineering from Anna University, India, and Master of Business Administration degree in Financial Management from the Indira Gandhi National University, India. He has been bestowed the Gold medal for excellence in Master of Engineering degree by the Anna University, India. He has been Faculty member of Engineering at various Universities of repute in India and abroad. He has published numerous research articles in refereed impact factor journals and conference proceedings, which are indexed in Thomson Reuter's Journal Citation Report (JCR) and Scopus. His current research involves VLSI system design, System on Chip (SoC), Network on Chip (NoC), Embedded Systems, Wireless Sensor Networks, Video coding, and Image processing

Nehal Alyamani is currently conducting a Master in Energy Engineering at Effat University. She received her Bachelor's degree from Effat University, in 2017, in Electrical and Computer Engineering with a concentration in digital systems, she also holds a Professional diploma in cyber security from King Abdulaziz University and spent a 4-credit hours in Design Thinking at Lingman University in Hong Kong, in 2019. Nehal is interested in Smart Building, Electrical plans, Renewable Energy, and Embedded Systems. In 2016 she participated in 5th International Conference on Electronic Devices, Systems, and Applications (ICEDSA). She has learned about solar energy systems design, wind energy, and waste to energy technologies. Currently, Nehal is conducting research on wind energy development, renewable energy in Saudi Arabia, and designing electrical and mechanical plans on AutoCAD for Effat University College of business building