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#### Biography

Dr. Mohammad Monirujjaman Khan is currently working as an Associate Professor in the Department of Electrical and Computer Engineering at North South University, Dhaka, Bangladesh. He received the B.Eng. degree in Electrical and Electronic Engineering from Queen Mary University of London (QMUL), United Kingdom, with First Class Honours. Dr Khan received the Draper's Company Undergraduate Prize 2008 from Queen Mary University of London for outstanding academic merit. He completed his PhD degree in Electrical and Electronic Engineering from Queen Mary University of London (QMUL). His PhD was funded by Queen Mary University of London full scholarship. After completing his PhD, Dr Khan worked as a postdoctoral research assistant under Engineering and Physical Science Research Council (EPSRC) funded IMPACT QM KTA Scheme 1 project in the School of Electronic Engineering and Computer Science at Queen Mary University of London, UK.

Dr Khan received Dr Fatema Rashid first best paper award in the International Conference on Advances in Electrical Engineering (ICAEE 2013). He also received best presenter award in the 3rd International Conference on Informatics, Electronics, and Vision Technology, (ICIEV-2014). Dr Khan received best poster paper award in the 1st International Conference on Electrical Engineering

and Information & Communication Technology (ICEICT-2014). In addition, he received best paper award in the 10th Global Engineering, Science and Technology Conference, 2015. His paper 'Wireless Health Monitoring System' received best presenter award in 2nd Borneo International Conference on Applied Mathematics and Engineering, BICAME, Indonesia, 2018. Dr. Khan received best paper award for his paper titled 'Education System for Bangladesh Using Augmented Reality, Virtual Reality and Artificial Intelligence' presented in IEEE World AI IoT Congress, 10 th-13th May, 2021, Seattle, USA. He received academic excellence award at the International Conference on Computational Techniques and Applications – ICCTA, 9-10 October, 2021. Dr. Khan has received best presenter award at the 2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON), 27-30 October, Vancouver, Canada. Recently, Dr. Khan has received best presenter award at the 2021 IEEE 12th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (IEEE UEMCON), 1-4 December, New York, USA. He received best presenter award for his paper titled "Violence Detection Using Computer Vision Approaches" at the IEEE World AI IoT Congress 2022, Seattle USA, 6-9 June,, 2022. Dr. Khan received best paper award at the 2022 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON), 12-15 October, Vancouver, Canada. Dr. Khan received the best paper award at the 9th International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET-2024) for his paper titled "Design and Investigation of a Small Quasi-Self-Complementary UWB Implantable Antenna". His research interests include wearable antennas and radios, AI, IoT, blockchain, machine learning, deep learning, explainable AI, mobile and web application development, virtual reality, augmented reality, computer vision, small compact, smart and multiband antennas, body-centric wireless communications, electromagnetism, cognitive radio, electrically small antennas, smart cooperative network: personal and body area network, radio channel modelling, remote healthcare, smart telemedicine, biomedical engineering, power electronics, healthcare engineering, environment and health, wireless sensor network, narrowband antennas and radio channel, UWB antennas and radio channel, mmWave antennas, THz antennas, MIMO antenna, Array antenna, 5G and beyond.

Dr. Khan has authored and co-authored more than 308 peer-reviewed leading journals, international conferences and book chapters. He is an active reviewer of IEEE Transactions on Antennas and Propagations, IEEE Magazine on Antenna and Propagation, MDPI, HINDAWI, Tech Science Press, IEEE

Antenna and Wireless Propagation Letter, IEEE Communication Letter, IET Microwaves Antennas & Propagation, Wireless Personal Communications, Springer, Multimedia Systems, International Journal on Communications Antenna and Propagation, International Journal of Microwave and Wireless Technologies and numerous IEEE Conferences.

#### Research Areas

- Mobile, Wireless and Web Applications Development
- Modeling and Simulation
- RF, Microwave and Communication Technology
- Cloud Computing and Distributed Systems
- Embedded Systems and Internet of Things (IoT)
- Power Systems and Renewable Energy
- Artificial Intelligence & Robotics

#### Research Interests

- Wearable Antennas and Radios
- Compact, Smart and Multiband Antennas
- Body-centric Wireless Communications
- Radio Channel Modelling
- Remote Healthcare
- Health Informatics
- UWB Antennas and System
- Augmented Reality and Virtual Reality
- Bio Medical Engineering and Public Health
- Mobile and Cloud Computing
- IoT for Healthcare and other Applications, IoTM for Healthcare
- THz Antenna and System
- Millimetre-Wave Antennas and System for the 5G
- Renewable Energy
- State of Charge (SOC)
- Power Electronics

- Blockchain Technology
- Deep Learning
- AI
- Machine Learning
- Textile, Conformal and Flexible Antenna System
- Personal and Body Area Network
- Sensors Networks
- Web and Mobile Application Development
- e-Commerce (Big Data and Machine Learning)
- Computer Vision and Robotics
- COVID-19

#### Teaching

- EEE 111/ ETE 111 Analog Electronics-I
- EEE 111L/ ETE 111L Analog Electronics-I Lab
- EEE 141 Electrical Circuits I
- EEE 141L Electrical Circuits I Lab
- EEE 211 Digital Logic Design
- EEE 211L Digital Logic Design Lab
- EEE 321 Introduction to Communications Systems
- EEE 321L Introduction to Communications Systems Lab
- EEE 532 Radar Systems Analysis and Design
- EEE 533 Digital Communications
- EEE 542 Advanced Antenna Theory and Design
- EEE 540 RF & Microwave Engineering and Applications
- CSE499A/EEE499A/ETE499A – Senior Design I
- EEE 499A Senior Design Project I
- ETE 499A Senior Design Project I
- CSE 231 Digital Logic design
- CSE 231L Digital Logic design Lab

- CSE 299 Junior Design Course
- CSE499B/EEE499B/ETE499B – Senior Design II
- EEE 299 Junior Design Project I
- CSE 498/EEE 498/ETE 498 Internship/Co-op/Directed Research
- EEE 498 Internship/Co-op
- EEE 600 Graduate Thesis

#### Selected Publications

##### Journals

- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Akram Alomainy, Clive Parini and Yang Hao, "Experimental Characterisation of Ultra-Wideband Off-Body Radio Channels Considering Antenna Effects," IET Microwaves, Antennas & Propagation, Volume 7, Issue 5, pp 370-380, 2013
- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Akram Alomainy, and Clive Parini, "Experimental Investigation of Subject Specific On-Body Radio Propagation Channels for Body-Centric Wireless Communications," Electronics-Multidisciplinary Digital Publishing Institute (MDPI), Volume 3, Issue 1, pp. 26-42, 2014
- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Akram Alomainy and Yang Hao, "Performance of Ultra Wideband Wireless Tags for On-Body Radio Channel Characterisation," International Journal of Antennas and Propagation, Volume 2012, Article ID 232564, pp. 1-10, (Hindwai Publishing Corporation). , 2012
- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Sidrah Liaqat, and Akram Alomainy, "Comparison of Two Measurement Techniques for Ultra Wideband Off Body Radio Channel Characterisation," Progress In Electromagnetics Research M (PIERM), Vol. 27, 179-189, 2012
- Mohammad Monirujjaman Khan, Md. Azizur Rahman, Md. Abu Talha, "Wearable Antenna for Power Efficient On-Body and Off-Body Communications," Journal of Electromagnetic Analysis and Applications, 6, pp. 238-243, 2014
- Q. H. Abbasi, M. M Khan, S. Liaqat, M. Kamran, A. Alomainy, and Y. Hao, "Experimental Investigation of Ultra Wideband Diversity Techniques for On-body Radio

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- Mohammad Monirujjaman Khan, A. K. M Monsurul Alam, Prodip Kumer, “Investigation of a Compact Ultra Wideband Antenna for Wearable Applications,” International Journal on Communications Antenna and Propagation, Vol. 4, No 4, pp. 124-129, 2014
- Qammer H. Abbasi, Mohammad Monirujjaman Khan, S. Liaqat, M. Kamran and Yasir Saleem , “A Novel Pathloss Model for Angular and Spatial Dependency of Ultra Wideband Off-Body Radio Channels,” International Journal on Communications Antenna and Propagation, Volume 3, No.4, pp 206-209, 2013
- Mohammad Monirujjaman Khan, A. K. M Monsurul Alam, “Comparative Study of Rectangular and Circular Microstrip Fed Patch Antennas at 2.45 GHz,” International Journal of Scientific and Engineering Research, Volume 5, Issue 10, pp. 1028-1032, 2014
- Mohammad Monirujjaman Khan, A. K.M Monsurul Alam, Ratil Hasnat Ashique, “Comparison of Rectangular and Circular Microstrip Fed Patch Antennas at 5.76 GHz,” American Academic and Scholarly Research Journal, Volume 6, No 6, pp. 35-41, 2014
- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Mirajur Rahman, Ratil Hasnat Ashique , “Experimental Study of On-Body Radio Channel Performance of a Compact Ultra Wideband Antenna,” Journal of Electromagnetic Analysis and Applications, 7, pp. 1 9, 2015
- Mohammad Monirujjaman Khan, Ratil Hasnat Ashique, et al. , “New Wavelet Thresholding Algorithm in Dropping Ambient Noise from Underwater Acoustic Signals,” Journal of Electromagnetic Analysis and Applications, Vol. 7, No. 3, pp. 53-60, 2015
- Mohammad Monirujjaman Khan, Ratil Hasnat Ashique and Md. Raqibull Hasan , “Study of UWB On-Body Radio Channel for Ectomorph, Mesomorph and Endomorph Body Types,” Journal of Telecommunications, Vol. 29, Issue 2, pp.18-22, 2015
- Mohammad Monirujjaman Khan, Qammer H. Abbasi, Ratil Hasnat Ashique , “Comprehensive Design and Propagation Study of a Compact Dual Band Antenna

for Healthcare Applications,” Journal of Sensor and Actuator Networks, Multidisciplinary Digital Publishing Institute (MDPI), Vol. 4, No. 2, pp. 50-66, 2015

- Mohammad Monirujjaman Khan , “Experimental Study of Dynamic Ultra Wideband On-Body Radio Propagation Channel for Medical Applications,” Global Science and Technology Journal, Australia, Vol. 3, No.1, March 2015 Issue, pp. 94-106. , 2015
- Rakibull Hasan, Mohammad Monirujjaman Khan, Asaduzzaman Ashek, “Microcontroller Based Home Security System with GSM Technology,” Open Journal of Safety Science and Technology, Vol. 5, No 2, 2015
- Mohammad Monirujjaman Khan, “On and Off-Body Radio Channel Performance of a Dual Band and Dual Mode Antenna,” The Applied Computational Electromagnetics Society (ACES), 2015
- A. Sultana, M. M. Khan, “Design of UWB Band Notch Textile Antenna for Body-Centric Wireless Network with the Comparison of Five Different Textile Substrate,” International Journal on Communications Antenna and Propagation Vol. 10, No 5, 2020. (Scopus Indexed, Cite Score 2.5, Q2), 2020
- HMA Rahman, MM Khan, “Design and Analysis of a Compact Band Notch UWB Antenna for Body Area Network,” Journal of Electromagnetic Analysis and Applications , 2018
- Kaisarul Islam, Tabia Hossain, Mohammad Monirujjaman Khan , “A Compact Novel Design of A 60 GHz Antenna for Body-centric Communication,” International Journal on Communications Antenna and Propagation, Vol. 10, No 5, 2020. (Scopus Indexed, Cite Score 2.5, Q2), 2020
- Tabia Hossain, Mohammad Monirujjaman Khan , “Design of A Dual Band On and Off body Antenna for Medical Applications,” International Journal on Communications Antenna and Propagation, Vol. 10, No 5, 2020. (Scopus Indexed, Cite Score 2.5, Q2), 2020
- Mohammad Monirujjaman Khan, Mahizbin Shams-E-Mofiz, Zerinn Sharmin, “Development of E-Commerce Based Online Web Application for Covid-19 Pandemic,” iBusiness, 12, 113-126, 2020. (Google Scholar). , 2020
- Mohammad Monirujjaman Khan, Md. Rabbi Amin, Abdullah Al Mamun, Ahsan Ahmed Sajib, “Development of Web Based Online Medicine Delivery System for Covid-19

Pandemic,” Journal of Software Engineering and Applications. Vol. 14 No. 1, pp. 26-43, 2021, DOI: 10.4236/jsea.2021.141003 ,(Google Scholar)., 2021

- Mohammad Monirujjaman Khan, SM Tahsinur Rahman and Sabik Tawsif Anjum Islam , “The Use of Telemedicine in Bangladesh during COVID-19 Pandemic,” E-Health Telecommunication Systems and Networks. Vol. 10, No. 1, pp. 1-19, 2021. (Google Scholar). , 2021

- Kaisarul Islam, Tabia Hossain, Mohammad Monirujjaman Khan, Mehedi Masud, and Roobaea Alroobaea, “Comparative Design and Study of A 60 GHz Antenna for Body centric Wireless Communications,” Computer Systems Science and Engineering, Tech Science Press. Vol. 37, No.1, pp.19-32, 2021, doi:10.32604/csse.2021.015528, (Impact Factor 1.486, Scopus Indexed). , 2021

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- Mahfuza Rahman, Tabia Hossain, Mohammad Monirujjaman Khan, “Novel Design of Penta Band Planar Inverted F Antenna for Wireless Communication,” International Journal on Communications Antenna and Propagation, (Scopus Indexed, Cite Score 2.5). Vo. 11, No. 2, 2021., 2021

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▪ Minhaj Uddin Chowdhury, Khairunnahar Suchana, Syed Md Eftekhar Alam, Mohammad Monirujjaman Khan, “Blockchain Application in Banking System,” Journal of Software

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- Amir Hamza Soyeb, Md.Farhad Gazi and Mohammad Monirujjaman Khan, "Mobile Application for Online Divorce Counseling Due to Mental Pressure During Covid-19 Pandemic," Journal of Software Engineering and Applications. Accepted and due for publication, (Google Scholar). , 2021

- Dipta Voumick, Prince Deb, Mohammad Monirujjaman Khan, "Operation and Control of Microgrids using IoT (Internet of Things)," Journal of Software Engineering and Applications, 14, 418-441. doi: 10.4236/jsea.2021.148025., (Google Scholar). , 2021, 2021

- Mohammad Monirujjaman, Kaisarul Islam, Nakib Alam Shovon et al., "Various Textiles Based Comparative Analysis of A Millimeter Wave Miniaturized Novel Antenna Design for Body-centric Communications," International Journal of Antennas and Propagation, vol. 2021, Article ID: 2360440, pp. 1-14, 2021. <https://doi.org/10.1155/2021/2360440>. Impact Factor 1.174. (Scopus Indexed)., 2021

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Materials in Microwaves and Optics, Queen Mary University of London, UK

Reviewer: IEEE Transactions on Antennas and Propagations (2010-present)

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Member: IEEE, IET

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