BRIGHT YEBOAH-AKOWUAH

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PERSONAL PROFILE

Ing. Dr. Bright Yeboah-Akowuah is a PhD holder in Telecommunication Engineering from Kings College London, with broad knowledge in antennas, Computer Networking, advanced IT programming skills including Java and C. He is currently a Lecturer in the Department of Computer Engineering at the Kwame Nkrumah University of Science and Technology (KNUST)

EDUCATION AND QUALIFICATIONS

2013-2017 King's College London

PhD *Novel Antenna Designs for Body-centric Applications*
Designing, development, investigating and implementation of ultra-small body-worn antennas for body-centric applications (i.e. on-body, in-body and off-body).

2008-2009 Queen Mary, University of London

MSc. *Telecommunications (Networking)*
Modules Studied: Network modelling, Security and authentication (Cryptography), Advanced Java programming, Digital Broadcasting, Multimedia Studies, Internet Infrastructure, Wireless Networking and Satellite Communication.

2004-2008 Queen Mary, University of London

B.Eng. *Telecommunication Engineering*
Modules Studied: Enterprise Management, Product Development, Electronic system, Java Programming, Telecommunication Systems, Internet Infrastructure, Digital design, Signal Processing, Microwave Engineering, Software Engineering, Microwave and Optical Transmissions, C programming, Networking etc.

WORK EXPERIENCE

2018-Present Lecturer, KNUST

2013-2017 PhD Student, King's College London

Conducting research on antennas for implantable and wearable devices, microwave imaging and breast cancer.

2014- 2016 Teaching Assistant, King's College London

Helping undergraduate students in Java programming tutorials, organising laboratory test sheets and coursework. Assisting MSc. postgraduate students with their projects, tutoring fellow PhD students in Computer Simulation Technology software and mentoring by communicating with students in one-to-many and one-to-one basis.

2015- 2016 Research Assistant, King's College London

A collaborator of DSTL, UK funded project. The role involved designing and simulation of electromagnetic structure (MRI) for detecting of land mines and concealed explosives. A computational model was developed to assess how the

dielectric properties of biological tissues affect the radio frequency magnetic field employed in Nuclear Quadrupole Resonance (NQR) at (0.5-5 MHz).

October 2014 Visiting PhD Student, SUSTC, Shenzhen, China

Antenna fabrications and measurements. Lectures and Seminar delivery. Keynote speaker at departmental forum to explain UK education systems to Chinese students.

COMPUTER SKILLS

Advanced JAVA, C programming, JavaScript, LaTeX, OpenOffice, MatLab, Microsoft office suite, MatLab, and (CAD) Computer Simulation Technology for modelling antennas and EM waves.

OTHER INFORMATION

Communication Skills

Developed excellent communication skills through undertaking presentations, teaching students, written reports and assignments during both my degrees and through my work experience. Oral and poster presentations at EuCAP Conference.

Other Skills

Adaptability: Demonstrated my ability to integrate in different cultures by working with and experiencing a variety of activities both at university and workplace.

CONFERENCES AND PUBLICATIONS

[1] B. Yeboah-Akowuah, P. Kosmas and Y. Chen, "A Q-Slot Monopole for UWB Body-Centric Wireless Communications," in IEEE Transactions on Antennas and Propagation, vol. 65, no. 10, pp. 5069-5075, Oct. 2017, doi: 10.1109/TAP.2017.2740977..

[2] B. Yeboah-Akowuah, K. Efthymios, G. Palikaras,Y. Chen, and P. Kosmas, "A Novel Compact Planar Inverted-F Antenna for Biomedical Applications in the MICS band", EuCAP 2014, 6-11th April, Netherlands.

[3] W. Yamada, M. Sasaki, T. Sugiyama, O. Holland, S. Ping, B. Yeboah-Akowuah, J. Hwang, and A. H. Aghvami, "Indoor Propagation Model TV White Space", June 2014, CROWNCOM 2014. Oulu, Finland.

[4] S. Ahsan, B. Yeboah-Akowuah, E. Kallos, G. Palikaras, H. Cano Garca, and P. Kosmas, "Balanced antipodal Vivaldi antenna for microwave tomography," in 2014 4th Internat. Conf. Wireless Mobile Comm. Healthcare (MobiHealth), Athens, Greece, Nov. 2014.

[5] B. Yeboah-Akowuah, P. Kosmas, and Y. Chen, "A Low Profile Microstrip Patch Antenna for Body-Centric Communications at 2.45 GHz band", EuCAP 2015, 12-17th April, Lisbon, Portugal.

[6] B. Yeboah-Akowuah, P. Kosmas, and Y. Chen, "Compact UWB Antenna Array for Microwave Imaging ", EuCAP 2015, 12-17th April, Lisbon, Portugal.

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