

## Baker Albahri

[bakeralb@buffalo.edu](mailto:bakeralb@buffalo.edu)

- Senior Electronic and Communication Engineer with multiple degrees and comprehensive practical and theoretical experience in the field of digital systems, embedded systems, and robotics.
- Expert in combining multiple sensors (using sensor fusion) and microcontrollers to enable the robotic systems to follow/learn the human movement to enhance the overall system efficiency and seek new applications for robotic manipulators following the rapid changes and developments in technology.
- Has an excellent ability to combine multiple disciplines (with very good practical and theoretical background in Embedded systems, Digital systems, Computer Hardware/Architecture, Microcontrollers, Robotics, and control engineering) to solve problems and implement state-of-the-art engineering techniques and research skills in the analysis and design.

### APPOINTMENTS

- ‘21 – present: Assistant Professor, Vermont State University, Electrical and Computer Engineering Technology. Vermont, USA.
- ‘15 – ‘20: Research and Teaching Assistant, University of Illinois at Chicago, Electrical and Computer Engineering Department, Illinois, USA.
- ‘14 – ‘15: Research and Teaching Associate, University of Illinois at Chicago, Master of Engineering Program, Illinois, USA.
- ‘08 – ‘13: Associate Professor, Electrical and Computer Engineering, Sohar University (affiliated with Queensland University, Australia), Oman.

### EDUCATION

- *Ph.D. Electrical and Computer Engineering*, University of Illinois at Chicago, USA, 2021.
- *Master Electrical and Computer Engineering*, University of Illinois at Chicago, USA, 2016.
- *Ph.D. Electronic and Communication Engineering*, Al Nahrain University, Iraq, 2006.
- *Master Electronic and Communication Engineering*, University of Baghdad, Iraq, 2001.
- *Bachelor Electronic and Communication Engineering*, University of Baghdad, Iraq, 1996.

### SAMPEL PUBLICATIONS

Below are the most recent published papers in the field of Electromagnetics. I published them when I was preparing my second PhD at University of Illinois at Chicago. Currently, I am working in field of embedded system, robotics, and SoPC. But I do not have problem to teach any course in electromagnetics and antenna. List of other (older) publications is available upon request.

B. Albahri and P.E.L. Uslenghi, “Exact Scattering by Metal Structures with Strips and Right-Angle Wedges”, *Radio Science Letters*, 2, 2020. DOI: 10.46620/20-0022.

B. Albahri and P.E.L. Uslenghi, “Exact Geometrical Optics Scattering by Truncated Metal Gratings”, in *2020 URSI GASS*, Rome, Italy, 2020.

B. Albahri and P.E.L. Uslenghi, “Electromagnetic Scattering by a Metallic Quarter-Cylinder Located Inside a Trihedral Metal Reflector”, *National Radio Science Meeting*, January 2016, Boulder, Colorado, USA, 2016.

B. Albahri and P.E.L. Uslenghi, “Electromagnetic Scattering by a Metal Semi-Circular Cylinder Located Inside a Metallic Dihedral Corner Reflector”, *15<sup>th</sup> International Conference on Electromagnetics in Advanced Applications (ICEAA 15)*, Italy, 2015.