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**B.Sc (U.O.T.) (IRQ), M.Sc(IRQ)**

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6. **University Education :**

(a) (2004) B.Sc (U.O.T.) in Electrical Engineering (Electronics), university of technology, (IRQ).

(b) (2007) M.Sc by research and thesis in Electronics of communication Engineering (Frequency Synthesizer), university of technology, (IRQ).

## **7. The published papers:**

- a. “Design and simulation of sigma-delta fractional-N frequency synthesizer for WiMAX”, Engineering and Technology Journal, University of Technology, Baghdad, Iraq, 2008.**
- b. “DWA technology to improve DAC of sigma-delta fractional-N frequency synthesizer for WiMAX”, Al-Nahrain University Journal for Science, Al-Nahrain University, Bagdad, Iraq, 2008.**
- c. “Performance optimizing of oversampling analog-to-digital converter (ADC) by using a new error cancellation circuit for medical applications”, Engineering and Technology Conference, University of Technology, Baghdad, Iraq, 2011.**

