

# NURUDEEN AGBONOGA

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## SKILLS

**Software:** Microsoft Office (Word, Excel, PowerPoint), MATLAB, Simulink, Multisim, PSPICE, LabView, Blender, Verilog, ANSYS HFSS (High Frequency Structure Simulator), Solid Edge, Eagle, Cadence Virtuoso, HSPICE  
**Programming:** C, Python, PHP, CSS, HTML

## EDUCATION

### UNIVERSITY OF TEXAS, DALLAS

*Master of Science in Computer Engineering*

**GPA: - 3.56/4.00**

Dallas, TX

EXP GRAD: May 2023

### UNIVERSITY OF TEXAS, ARLINGTON

*Bachelor of Science in Electrical Engineering*

**GPA: 3.76/4.00**

Arlington, TX

GRAD: Dec 2019

## EXPERIENCE

### ONCOR ELECTRIC DELIVERY

*Systems Engineer*

Dallas, TX

Nov 20 – Jun 21

- Co-ordinated with data team to provide real time power grid asset monitoring in a comprehensive graphical format
- Incorporated personnel and public safety procedures into design and operation according to the North American Electric Reliability Corporations Critical Infrastructure Protection's protocols

### THE SHOULDERS OF GIANTS

*Technical Mentor/ Research Assistant*

Dallas, TX

Feb 20 – Sep 21

- Volunteered as a research assistant on multiple engineering projects for STEM outreach. Tasks involved PCB design, project documentation, creating animated tutorials and presenting and assembling projects with school children 3 through 12
- Served as a technical mentor for high school students working on personal projects as well as structured projects offered by organization in various fields of engineering including biomedical and electrical

### BEUMER GROUP

*CAD-PLM Intern*

Arlington, TX

Sep 19 – Dec 19

- Worked with the product design team in a Project Lifecycle Management Project
- Effectively transitioned existing designs and drawings from AutoCAD to Solid Edge

### RFID AND AUTO IDENTIFICATION LABS

*Lab Manager*

Arlington, TX

Aug 18 – May 19

- Supervised a team of 10 research assistants and progress of 4 research projects; RFID in sleep monitoring, firearm tracking, medication tracking and an RFID Integrated Smart Chair
- Designed and conducted experiments involving antenna simulations using ANSYS HFSS, antenna fabrication and assessment of RFID systems

## PROJECTS

### *Auto-Carwash State Machine ASIC design*

Dec 19

- Created a state machine ASIC from the logic design and Verilog code to laying out and testing a library of standard cells in cadence virtuoso to placement and routing of final design. The final ASIC was made of 3000+ cells and it described the operation of an automatic car wash system

### *<\$10 Programmable Pulse Generator*

Dec 19

- Designed a low cost system capable of generating various waveforms as requested by a user with automatic level control and network gain calculation. The project was realized with the TM4C123GH6PMI microcontroller, a Digital to Analog Converter (DAC), Operational Amplifiers and a switched capacitor voltage converter.

## PUBLICATIONS

- Agbonoga N, Lalwani B, Jones E.C. Development of Affordable Smart Ingestible Pills for Safe Self Medication, International Supply Chain Technology Journal, 2019.