

Omotoyosi Taiwo

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EDUCATION

Bachelor of Science (B.Sc), Computer Science, 2013

Fisk University, Nashville TN. GPA 3.7

Bachelor of Engineering (B.Eng), Electrical Engineering, 2013

Vanderbilt University, Nashville TN. GPA 3.2

Master of Engineering (M.Eng), Electrical Engineering, 2016

Rensselaer Polytechnic Institute, Troy NY. GPA 3.0

CORE COMPETENCIES

Embedded C, CAD/AutoCAD, SPICE, Cadence, MATLAB, C/C++, Java, Python, R, Linux and Semiconductor Physics

WORK EXPERIENCE

Software Engineer / Electrical Engineer. Malta, NY. Jan 2018 - Present

- Unable to work due to United States visa complications, lengthy appeal and eventual Canada Permanent Residency application - recently approved. Took Coursera data science and advance algorithm courses to improve knowledge.
- Worked as a freelance python and java software developer.

Device Engineer / Analysis Programmer - GLOBALFOUNDRIES Inc. Malta, NY. Sep 2016 - Dec 2017

- Designed and verified foundry ready 7nm series and parallel stacked FinFETs using Cadence Virtuoso to provide insights into effects of scaling on key device parameters.
- Developed an automated R, Java, and python based reporting system for data analysis and charting for millions of rows of experimental electrical data on 7nm FinFET DUTs to provide insights into Local Layout Effects (LLE) on key device parameters.
- Used modern R packages like rshiny, rconnect, dplyr, ggplot2, data.table, etc. to develop a web accessible charting and report generation application for the Advance Technology Department team.

Head Teaching Assistant - Rensselaer Polytechnic Institute. Troy, NY. Aug 2014 - May 2016

- Head T.A for Laboratory Introduction to Embedded Control (LITEC) and Electric Circuits courses.
- Duties involved teaching students, organizing the rest of the TAs for lab sessions, exam proctoring, and grading coursework.

Student Researcher - Fisk University Materials Science and Application Group Nashville, TN. Sep 2009 - May 2011

- Assisted with the fabrication of semiconductor crystals like CZT and SrI_2 as small as 0.5 mm thickness.
 - Performed tasks that included photolithography, mechanical etching, and radiation detection measurements.
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PROJECTS

Student Undergraduate Projects - Vanderbilt University. Nashville, TN. Aug 2012 - May 2013

- Developed android application with two classmates called Footsteps which displays real-time location of friends, with small social network capabilities - Designed the location and mapping algorithm using GPS signals and network towers to optimize performance.
- Redesigned with four classmates a 15x15cm² PCB into a 10x10 cm² PCB that detects Single Event Upsets (SEUs) on a 28nm SRAM while maintaining functionality - Wrote the embedded C code for the microcontroller.

Summer Intern - Case Western Reserve University Department of Mathematics Cleveland, OH. Jun 2011 - Aug 2011

- Developed MATLAB scripts to deblur and denoise images using matrix manipulation techniques Singular Value Decomposition (SVD), Fourier transforms and filtered deconvolution.
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PERSONAL

Hobbies: Chess, Soccer, Bodybuilding, and Baking

Awards: Fisk University Ella Shepherd Moore Scholarship, Vanderbilt University merit scholarship