



Olalekan Ogunmolu

Research Interests

I want to make machines and robots' perception better by improving vision sensing, speech recognition and control robots through the power of Deep Learning.

Education

- 2014–Present **PhD in Electrical Engineering**, *The University of Texas at Dallas*, Richardson, Designed and prototyped a medical soft robot for automated patient positioning during cancer radiotherapy..
Advised by Nicholas Gans
- 2011–2012 **Master of Science in Engineering in Control Systems**, *The University of Sheffield*, Sheffield, United Kingdom.
Advised by Tony J. Dodd.
- 2000–2005 **Bachelor Of Science in Physics & Electronics**, *Adekunle Ajasin University*, Akungba, Nigeria.
Senior thesis advised by Ademola Amusa

Publications

Olalekan Ogunmolu, Xuejun Gu, Steve Jiang, and Nicholas Gans. **A Real-Time Soft-Robotic Patient Positioning System for Maskless Head-and-Neck Cancer Radiotherapy**. IEEE Conference on Automation Science and Engineering (CASE), Gothenburg, Sweden, August 2015.

Olalekan Ogunmolu, Nicholas Gans, Steve Jiang, Xuejun Gu. **An Image-Guided Soft Robotic Patient Positioning System for Maskless Head-And-Neck Cancer Radiotherapy: A Proof-of-Concept Study**. American Association of Physicists in Medicine (AAPM) Annual Meeting, July 2015.

Invited Talks

A Real-Time Soft-Robotic Patient Positioning System for Maskless Head-and-Neck Cancer Radiotherapy, University of Texas Southwestern Medical Center, Dallas (July 2015); **IEEE Dallas speakers bureau**, (October 2015)

Academic Honors

Jonsson Scholarship, 2014 - Present.

Petroleum Technology Development Fund (1.7% acceptance), 2011 - 2012.

Federal Government (of Nigeria) Scholarship (3.6% acceptance), 2002.

Ondo State (Nigeria) Scholarship (10% acceptance) 2004.

Experience

Teaching Experience

Spring '15 **Teaching Assistant, Linear Systems (M.S. Class)**, *University of Texas at Dallas*, Responsible for helping Masters students with linear control theory applications, assignments, grading homeworks and midterms.

Fall '14 **Teaching Assistant, Introduction to Robotics**, *University of Texas at Dallas, Richardson*, Guided students during laboratories in programming the Robai Robot and graded homeworks.

Spring '14 **Instructor, Analysis and Design of Digital Systems**, *Adekunle Ajasin University, Akungba-Akoko, Nigeria*.

Summer '14 **Instructor, Digital Logic Design**, *Adekunle Ajasin University, Akungba-Akoko, Nigeria*.

Summer '14 **Instructor, Introduction to Assembly Language**, *Adekunle Ajasin University, Akungba-Akoko, Nigeria*.

Miscellaneous

2009–2011 **Warehouse Manager, Apapa Plant**, *Nigerian Bottling Company Plc, Lagos*, Managed the basic and depot warehouses which accounted for 30% of company's storage depots for finished goods and raw materials.

2007–2008 **Banking Assistant**, *First Bank of Nigeria Plc, Lagos*.
Provided IT infrastructure support for Broad Street branch (Lagos); resolved customer queries; managed key branch accounts

2005–2007 **System Engineer**, *DMT Technologies Limited, KD, Nigeria*.
Managed E-1 Links for Mobile TelCo Customers; Installed RF communication stations, Deployed and configured networking devices

Languages

English **Can read, write and speak fluently.** *Lived in Nigeria, United Kingdom and United States.*

Yoruba **Proficient** *Native Nigerian Language. Spoken at home.*

Computer Skills

Mainstream	C++, C#, MATLAB, Python, R LabVIEW
Unix	Ubuntu, OpenSuse
Windows	MS DOS Win XP, 7, & 8

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📄 fancylittlerobots.blogspot.com

Interests

Cycling About 50 miles a week
Swimming About 10 hours a month

References

Nick Gans
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Tony J. Dodd
t.j.dodd@sheffield.ac.uk

Steve Jiang
steve.jiang@utsouthwestern.edu