Curriculum Vitae

Dr. Peter Fasogbon

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Research Interests (3D Computer vision): Calibration, XR, AR, VR, Real-time system

Work Experience

April 2017 – Present

Senor Researcher Computer Vision

Nokia Technologies

Real-time Volumetric System, 3D capture and animation, Multi-view calibration, and Technical consultant in Standards (XR5G, MPEG, 3GPP).

April 2013 – April 2016

R & D Engineer

French Railway Company (SNCF)

Creation of 3D vision systems to monitor high speed railway catenary system, and contact wires. System testing, Integration and Placement.

November 2012 – March 2013

Engineer

Université de Lille, CRISTAL (CNRS)

Development of 3D vision simulation tool for railway application, such as system (Cameras, Lasers) placement, distortion, perturbations under high speed railway environment.

January 2012 – June 2012

Master Research Intern

Université d'Auvergne, ALCOV ISIT (CNRS)

Real-time Tool/Tissue Segmentation for Minimal Invasive Surgery, Monocular 3D reconstruction, and CUDA implementation.

May 2011 – September 2011

Summer Research Intern

Université de Bourgogne, Le2i (CNRS), France

Industrial tube crack detection using statistical correlated filter using exponential noise distribution (Probabilistic image analysis). Project financed by a multi-national manufacturing company in Paris.

Education

Sept. 2013 – Oct. 2016

Doctor of Philosophy (Industrial)

Université de Lille, France

Collaboration between French Railway (SNCF) and Université de Lille, CRISTAL (CNRS).
Supervisor: L. Macaire, L. Duvieubourg
Dissertation: Dimensional Measurement of Metallic Object by 3D Vision

2011 – 2012

Master 2 - VIBOT (Vision and Robotics)

Université de Bourgogne, France

International master of excellence: Erasmus Mundus

2010 – 2011

Master 1 - Computer Vision (MSCV)

Université de Bourgogne, France.

2009 – 2010

Professional Bachelor's Degree

Université Joseph Fourier, IUT1, France.

Computer Networks and Telecommunication
Final Project: Computer Net. Security (Firewall)
Training: Website Database Management (MySQL)

2007 – 2009

Two years of B.Eng Electronics Engineering

Obafemi Awolowo University, Nigeria

Memoir: Zigbee wireless network (Submitted to Joseph Fourier University)

OTHER WORK EXPERIENCE

Transcriber at Systrad (2013)
Part-time: Tasks for French National Police in Lille, France (English-to-French)

Project Experience

Nokia Volstream (2020 – 2024)

Goal : Real-time volumetric streaming system, the future XR 3D communication

Role : Main computer vision expert, development of localization and calibration modules,

depth improvement, and neural based rendering techniques

Impact: Demos at Mobile World Congress (2023, 2024), Gstreamer conference 2024, Millennium Technology Prize Forum 2024, multiple scientific publications and patents

Nokia MD3C (2019 – 2020)

Goal : Depth generation on smartphones with cloud infrastructure

Role : Main researcher and developer

Impact: Large media coverage within Nokia, multiple demos to Nokia leadership group, multiple publications and patents

Camescat (2013 – 2016)

Goal : Creation of vision technologies for railway inspection and maintenance

Funded : Inter-ministry region fund and part EU funding, 5 year of 1M euros/year

Role : Main scientific contributor and link between several industries involved

Skills : system calibration modules, Real-time processing, 3D reconstruction, Image processing, Robotics

Impact : Large media coverage, Robust prototypes for commercialization Partners: SNCF & CSEM & MERMEC etc.

Awards

2012 **Merit based grant for PhD thesis,** *Interministry fund of Nord-Pas-de-Calais region in France*

2010 **Merit based grant:** *CISCO more together competition on IPV6, 3rd place in France*

Language

English	Official Language
French	Full Professional Proficiency
Finnish	Intermediate

Hobbies

Traveling, Football goalkeeping, Dancing, and Playwright

Background

Programming	C/C++, CUDA, Python, CUDA, Matlab, Java, Scala
Library	OpenCV, ROS, Ceres, G2o, OpenCL, OpenNL, OpenGL, Blender
Deeplearning	Pytorch, Tensorflow
3D	SLAM, SfM, multi-view geometry, structured-light
Others	Visual tracking, real-time processing

Publications and Patents

Link to Google Scholar