

Dr. Brice EKOBO AKOA
Dpt G.E.T. of ENSPY
P.O Box 8390, Yaoundé
Tél.: +237 699 788 548
ekobobrice@gmail.com

Nationality: Cameroonian
Grade: Doctor and Engineer
Institution: ENSPY, UY1, Yaoundé
Research Domain: Artificial Intelligence & Systems Optimization



Professional Objective:

Doctor and Engineer in Microelectronics specialized in research, design and development of software embedded systems, my skills are mainly focused on three areas: microelectronic flow development, artificial intelligence and optimization of systems.

Anxious to always deliver IPs (intellectual property) on time and with the greatest possible functionality and to measure their effectiveness and performance to progress, I am in constant watch on new methods and new tools for management, monitoring and project management. I would like to share to interested companies around the world my team spirit and my knowledge in combining programming, statistical analysis and artificial intelligence for the realization of software solutions.

Working Experience

ENSPY, University of Yaoundé 1 (Yaoundé)	Lecturer and Researcher (Embedded Systems, Image processing, C, C++ and Python programming, Managing End of Studies Projects for Engineering and Master cycles)	Since January 2020
CETIC, PKF Institute of Excellence (Yaoundé)	Teacher and Researcher (Microelectronics, Operational research, HW & SW Concepts)	2017 - 2019
CMR (Marseille)	Engineer R & D: <ul style="list-style-type: none">- Project manager- Design of new products- Realization of a benchmark for a system monitoring temperature in boats or reactors	2017- 2016
Medicodose Systems (Marseille)	Engineer R & D: <ul style="list-style-type: none">- Business intelligence- Project and team manager- Design of new products- Research and proposition of optimized solutions in terms of cost and performances	2015-2016
STMicroelectronics/Grenoble INP (Grenoble)	Engineer R & D: <ul style="list-style-type: none">- Creating an artifact detection tool on a video (Matlab decoder FFMPEG, C language).- Identification and prioritization of sources of error which deteriorates the quality of a video- Creating a tool to help for decision on the quality level of a given video based on the tools: Classification, Regression and Artificial Neural Networks- Designing a Matlab Simulink model compatible with Matlab Embedded- Generating a synthesizable code C and a HDL code and implementation of the solution based on neural networks FPGA via a JTAG probe (Xilinx)	2012-2014

BULL/Amesys (SophiaAntipolis)	Engineer in verifications: - Editing Plans of Development and test environments generations (GSE) - Implementing blocks of verification code (Verilog on OS linux)	2011-2012
STMicroelectronics (Grenoble)	Engineer Tests and Validations: - Automation of testing of SystemC models and platforms IPs - Instrumentation of C Hardware part of the algorithm for validation by formal proof - Implementing a flood of unit testing of SystemC and RTL models (simulated on cadence)	2010-2011
Tunisie-Télécom, (Tunis, Tunisie)	Higher Technician Training: - First Internship in industry: network equipment Maintenance and extension of GSM Monastir Management GSM network, logistics network data brewing and troubleshooting equipment	2008

Publications:

-
- [1] **B. Ekobo Akoa**, E. Simeu, F. Lebowsky, "Using statistical analysis and artificial intelligence tools for automatic assessment of video sequences". Proc. SPIE 9015, Color Imaging XIX: Displaying, Processing, Hardcopy, and Applications, San Francisco, Californie, EtatsUnis, 8/01/2014
- [2] **B. Ekobo Akoa**, E. Simeu, F. Lebowsky, "Video decoder monitoring using nonlinear régression". 19th IEEE International OnLine Testing Symposium (IOLTS'13), La Canée, Crête, 8-10/07/2013
- [3] **B. Ekobo Akoa**, E. Simeu, F. Lebowsky, "Using classification for Video quality evaluation, "2013 25th International Conference on Microelectronics (ICM), Beirut, 2013, pp. 1-4., 15-18/12:2013.
- [4] **B. Ekobo Akoa**, E. Simeu, F. Lebowsky, "Using Artificial Neural Network for Automatic Assessment of Video Sequences". 27th IEEE International Conference on Advanced Information Networking and Applications Workshops (WAINA'13), Barcelone, Spain, 25-28/03/2013
- [5] **B. Ekobo Akoa**, "Using Artificial Intelligence for Cocoa Beans Drying Process Automation". 6th PKFokam International Conference, Yaoundé, Cameroon, 11-13/06/2019
- [6] **B. Ekobo Akoa**, "Using ANN to Enhance Error Concealment in Digital Image Decoding", IOSR-JCE International Journal of Computer Engineering, February 2021.

Graduates:

-
- **PhD in Nanoelectronics and Nanotechnology:** Grenoble INP (National Polytechnic Institute), France, **2014**
 - **Professional Master** in Micro and Nano Electronics: Université Paul Cézanne, Marseille, France, **well Honors, 2010**
 - **Engineer** in Microelectronics: National Engineering School of Sousse (ENISO): 3rd / 50, Tunisia, **2009**
 - **Baccalaureate** (Mathematics and Physics) **with honors**, Classical High School Edea, Cameroon, **2003**

Specific Skills

Cadence, Modelsim, Eclipse, Netbeans, Visual studio, Matlab, Xilinx.cse; C, C++, Java, VHDL, Verilog, SystemC, Perl; UML

Languages: French (fluent), English (fluent), Spanish (scolary level), Arabic (5 years in Tunisia);

Interests: Chess, Football (captain of a team)

References

Fritz Lebowsky

PhD & Engineer, STMicroelectronics Grenoble

Fritz.Lebowsky@st.com

Tel.: 0033 4 76 58 60 11

Emmanuel SIMEU

Associate Professor, University of Grenoble Alpes

Emmanuel.Simeu@univ-grenoble-alpes.fr

Tel. : 0033 4 76 57 47 20