



Mohamed Aniss MEBARKI

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Education

2017 – 2019 **Master 2 – Radiofrequency Engineering**, *Université de Lille* (France)

2016 – 2017 **Master 2- Microelectronics Engineering**, *Université de Constantine* (Algeria)

Master 2 - Automatics and Embedded Systems, *Université Via*

2016 – 2017 *Domitia de Perpignan* (France)

In the frame of an Excellence Exchange Program funded by EU

2012 – 2015 **Licence Electronique**, specialized in Medical Electronics, *Université de Constantine* (Algeria)

Professional Experience

04 - 09/2019 *Cementys*, Paris (France) - Internship,

[Design & implementation of embedded optoelectronic measurement systems](#)

04 - 09/2018 *ST Microelectronics*, Tours (France) - Internship,

[TCAD Electrothermal characterization of semiconductor power devices](#)

Reference: Dr. Frédéric LANOIS (email: Frederic.lanois@st.com)

03 - 09/2017 *IEMN de Lille*, Lille (France) - Internship,

[Development of a novel method of material characterization using Terahertz Time Domain Spectroscopy \(THz - TDS\)](#)

Reference: Dr. Romain PERETTI (email: romain.peretti@univ-lille.fr)

Publication

2018: Peretti, R., Mitryukovskiy, S., Froberger, K., Mebarki, M. A., Eliet, S., Vanwollegem, M., & Lampin, J. F. (2019). THz-TDS Time-Trace Analysis for the Extraction of Material and Metamaterial Parameters. *IEEE Transactions on Terahertz Science and Technology*, 9(2), 136-149.

Technical skills :

- Programming :
 - **C++**, **Python**, **MATLAB**, VHDL, PHP, SQL, HTML
- Circuit Design: ADS Keysight, NI Multisim/Ultiboard, Proteus, PSim

- Automatic systems: Simulink, LabVIEW
- TCAD Simulation: Cadence, Sentaurus, Silvaco
- Electromagnetic, Multiphysics Simulation: CST Microwaves, COMSOL
- Advanced user of the common operative systems and standard software: MS Windows, MS Office (Word, EXCEL, PowerPoint)
- Experience with building energy simulation software EnergyPlus

Languages :

English	Arabic	French
Bilingual	Mother tongue	Bilingual

Hobbies

Sport; running, soccer, chess – Travelling – Painting – Cinema & Photography

Academical Projects:

Master 2 RF
Engineering

Design & fabrication of a Radar system for human respiration and heartbeat detection

Fabrication in clean room & electrical characterization of a MESFET transistor

CAD of CMOS RF Ring Oscillator using Cadence software

Master 2
Automation &
embedded
systems

Design of Power Management System Of A Nanosatellite (Cubesat)

Design of LED illumination system using Linux embedded system (FPGA)

Comparative study of command methods of a flexible robotic arm, introduction to artificial neural network-based control

Master 2
Microelectronics

TCAD simulation & electrical characterization of bipolar diodes and MOS transistor using Silvaco software

Design and fabrication of an Arduino-based robot, remote controlled via Bluetooth and an Android application