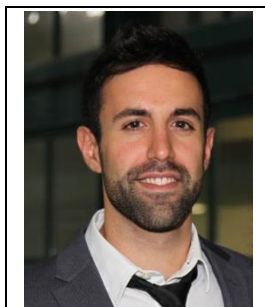


Curriculum Vitae



Personal information

First name(s) / Surname(s) **ALESSANDRO GROSSI**
Nationality Italian
Date of birth February 05th 1988
Gender Male

Education and training

Dates	January 2014 - Onward
Title of qualification awarding	Ph.D. Degree in Engineering Sciences
Principal subjects/occupational skills covered	Emerging Nonvolatile Memories characterization and modeling: Charge Trap NAND FLASH, RRAM, MRAM.
Name and type of organisation providing education and training	University of Ferrara, Ferrara, Italy
Dates	October 2010 - October 2013
Title of qualification awarded	Master Degree in Electronic and Telecommunications Engineering (INGEGNERIA ELETTRONICA E DELLE TELECOMUNICAZIONI)
Level in national or international classification	LM-29 Class of Master degree in Electronic and Telecommunication Engineering
Final Degree Mark	110 (out of 110) with merit
Graduation Date	7.10.2013
Dissertation/thesis subject	Digital systems electronics
Dissertation/thesis title	Electric characterization of ReRAM and Charge Trapping NAND Flash nonvolatile memories for Solid State Drives applications.
Thesis Supervisor	Chiar.mo. Prof. Piero Olivo
Months needed to complete the thesis	7
Place of internship	Engineering Department, University of Ferrara, Ferrara, Italy
Thesis Description	Experimental characterization of Charge Trap NAND Flash and RRAM arrays has been executed on Active Technologies RIFLE Automated-Test-Equipment, performing program/erase/read algorithm development and testing, reliability analysis and statistical modeling. In collaboration with IHP (Frankfurt Oder, Germany), Active Technologies (Ferrara, Italy), NplusT (Perugia, Italy).
Principal subjects/occupational skills covered	Memory devices, semiconductor device modeling, reliability analysis, statistical modeling, electrical characterization, MATLAB simulation, semiconductor device physics, microelectronics
Name and type of organisation providing education and training	University of Ferrara, Ferrara, Italy

Dates	October 2007- October 2010																				
Title of qualification awarded	1 st level degree in INGEGNERIA DELL'INFORMAZIONE (AUTOMAZIONE, ELETTRONICA, INFORMATICA, TELECOMUNICAZIONI) – Specific field of the degree course: Electronics																				
Final Degree Mark	110 (out of 110)																				
Graduation Date	12.10.2010																				
Dissertation/thesis subject	Electronic Instruments and Measures																				
Dissertation/thesis title	Definition and implementation of a load-pull system control algorithm oriented to the characterization of microwave devices																				
Thesis Supervisor	Prof. Antonio Raffo																				
Months needed to complete the thesis	6																				
Place of internship	Engineering Department, University of Ferrara, Ferrara, Italy																				
Thesis Description	Load-pull system control software development on Labview																				
Name and type of organisation providing education and training	University of Ferrara, Ferrara, Italy																				
Mother tongue	Italian																				
Other language(s)																					
Self-assessment <i>European level (*)</i>																					
English																					
French																					
	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th>Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>B2</td> <td>B2</td> <td>B2</td> <td>B2</td> </tr> <tr> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> </tr> </tbody> </table>	Understanding		Speaking		Writing	Listening	Reading	Spoken interaction	Spoken production		B2	B2	B2	B2	B2	A1	A1	A1	A1	A1
Understanding		Speaking		Writing																	
Listening	Reading	Spoken interaction	Spoken production																		
B2	B2	B2	B2	B2																	
A1	A1	A1	A1	A1																	
	(*) Common European Framework of Reference for Languages																				
Technical skills and competences	Matlab, Labview, PSpice, LTspice, Latex, Automated Test Equipment, Oscilloscope, Temperature Chamber, Simulink, Mathematica, AWR Design Environment, ADS-Agilent, Microsoft Visual Studio.																				
Programming languages known	C, C++, Java, Assembler, VHDL, SFC, Labview, Spice																				
Driving licence	B – Italian driving licence																				
Additional information	Certificates owned: FCE (First Certificate in English, Grade B, date of issue: 29.12.14) CLAD (Certified Labview Associate Developer, date of issue: 30.3.10) ECDL (European Computer Driving License, date of issue: 23.2.07)																				
	Journal Referee of IEEE Transactions on Device and Materials Reliability (TDMR) April 2015 - Onward																				
Awards	Grant: Borsa di studio per la mobilità all'estero – IUSS Unife May 2015																				

Research Articles

- “Statistical analysis of resistive switching characteristics in ReRAM test arrays”.
Cristian Zambelli, Alessandro Grossi, Damian Walczyk, Thomas Bertaud, Bernard Tillack, Thomas Schroeder, Valeriy Stikanov, Christian Walczyk.
In: IEEE International Conference on Microelectronic Test Structures (ICMTS), 2014.
- “Bit Error Rate Analysis in Charge Trapping Memories for SSD applications”.
Alessandro Grossi, Cristian Zambelli, and Piero Olivo.
In: IEEE International Reliability Physics Symposium (IRPS), 2014.
- “Electrical characterization of read window in ReRAM arrays under different SET/RESET cycling conditions”.
Cristian Zambelli, Alessandro Grossi, Piero Olivo, Damian Walczyk, Jarek Dabrowski, Bernard Tillack, Thomas Schroeder, Rolf Kraemer, Valeriy Stikanov and Christian Walczyk.
In: IEEE International Memory Workshop (IMW), 2014.
- “Automated characterization of TAS-MRAM test arrays”
Alessandro Grossi, Cristian Zambelli, Piero Olivo, Paolo Pellati, Michele Ramponi, Jérémy Alvarez-Hérault and Ken Makay.
In: IEEE International Conference On Design and Technology of Integrated Systems In Nanoscale Era (DTIS), 2015
- “Relationship among current fluctuations during forming, cell-to-cell variability and reliability in RRAM arrays”
Alessandro Grossi, Cristian Zambelli, Piero Olivo, Enrique Miranda, Valeriy Stikanov, Thomas Schroeder, Christian Walczyk, and Christian Wenger.
In: IEEE International Memory Workshop (IMW), 2015.
- “RRAM Reliability and Performance Characterization through Array Architectures investigations”
Cristian Zambelli, Alessandro Grossi, Piero Olivo, Christian Walczyk, and Christian Wenger.
In: IEEE Computer Society Annual Symposium on VLSI (ISVLSI), 2015
- “Impact of inter-cell and intra-cell variability on forming and switching parameters in RRAM arrays”
Alessandro Grossi, Damian Walczyk, Cristian Zambelli, Enrique Miranda, Piero Olivo, Valeriy Stikanov, Alessandro Feriani, Jordi Suñé, Gunter Schoof, Rolf Kraemer, Bernd Tillack, Alexander Fox, Thomas Schroeder, Christian Wenger, and Christian Walczyk
In: IEEE Transactions on Electron Devices (TED), 2015

Il sottoscritto acconsente, ai sensi del D.Lgs. 30/06/2003 n.196, al trattamento dei propri dati personali. Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università di Ferrara