Curriculum Vitae			
Personal information First name(s) / Surname(s)	RAUL CATALIN CIOBAN		
Nationality	Romanian		
Work experience Dates	Jun 2017 - Present		
Occupation or position held			
Main activities and responsibilities	- Multi - physics simulations		
Name and address of employer	Robert Bosch SRL, Cluj-Napoca		
Type of business or sector	Automotive electronics		
Dates	July 2014 – Jun 2017 Westving student (B b D student		
Occupation or position held	Working student / PhD student		
Main activities and responsibilities	 Failure analysis Environmental testing Research and development 		
Name and address of employer	Robert Bosch SRL, Cluj-Napoca		
Type of business or sector	Automotive electronics		
Dates	July 2011 – July 2014		
Occupation or position held	Scientific Research Practice		
Main activities and responsibilities	- Morphological analysis of different materials using Scanning Electron Microscopy		
Name and address of employer	Institutul de Cercetari Interdisciplinare in Bio-Nano-Stiinte, Babes-Bolyai University Cluj-Napoca		
Type of business or sector	Academic		
Education			
Dates	October 2015 – Present		
Title of qualification	Ph.D.		
Principal subjects/occupational skills covered	 Thermal modeling Multi-physics Simulations FEM and CAD Electronic packages Development of doctoral thesis : "Model calibration for simulation aided thermal design" 		
Name and type of organization providing education and training	Faculty of Physics, Babes-Bolyai University, Cluj-Napoca, Romania		

Dates October 2013 – July 2015

Title of qualification awarded	M.Sc. (Biomaterials)		
Principal subjects/occupational skills covered	 Modern Technologies of materials synthesis Biomaterials and Bionanostructures Ceramics and Vitreous materials Polymers and composite materials Spectroscopic and difractometric methods Development of master thesis 		
Name and type of organization providing education and training			
Dates	October 2009 – July 2013		
Title of qualification awarded	B.Sc. in Technological Physics		
Principal subjects/occupational skills covered	 Basic theoretical physics (mechanics, optics, electronics, thermodynamics) Advanced theoretical physics (analytical mechanics, quantum mechanics, solid state, plasma) Different types of materials (polymers, semiconductors, superconductors, ceramics) Spectroscopic and diffractometric methods Development of bachelor thesis ("Gold Nanoparticles developed in aluminosilicate structures with rare earth elements") 		
Name and type of organization providing education and training	Faculty Of Physics, Babes-Bolyai University, Cluj-Napoca, Romania		
Training/Certifications			
Dates Title of qualification awarded Name and type of organization providing education and training	May 2013 SEM DualBeam Training Certificate FEI NanoPort, Eindhoven, Netherlands		
Dates Title of qualification awarded Name and type of organization providing education and training	March 2013 TEM Training Certificate Ronexprim, Bucharest, Romania		
Dates Title of qualification awarded Name and type of organization providing education and training	February 2007 Level 2 Certificate in English (ESOL), Council of Europe Level C1 University of Cambridge ESOL Examinations		

Scientific papers	Finite element thermal modelling of power MOSFET packages R. Cioban , Sz. Szőke, D. Zaharie-B, Z. Kórádi, C. Leordean, S. Simon Microelectronics Reliability, submitted with manuscript number: MICREL-D-22-00024R2, 2022				
	FEM model calibration for simulation aided thermal design R. Cioban, Sz. Szőke, D. Zaharie-B, Z. Kórádi, C. Leordean, S. Simon Microelectronics Reliability, Volume 118, 2021, 114042, ISSN 0026- 2714, https://doi.org/10.1016/j.microrel.2021.114042				
	Validated Model Calibration for Simulation Aided Thermal Design R. Cioban, S. Szöke, Z. Kórádi, D. Zaharie-B., C. Leordean 2020 36th Semiconductor Thermal Measurement, Modeling & Management Symposium (SEMI-THERM), 2020, pp. 114-123, doi: 10.23919/SEMI-THERM50369.2020.9142853				
	Nanostructured silica-based microspheres for biomedical or catalytical applications S. Simon, O. Ponta, T. Radu, M. Todea, R. Cioban Conference book: The twenty-first Annual International Conference on COMPOSITES/NANO ENGINEERING ICCE-21 Tenerife, Spain, July 21-27, 2013				
International conferences	Nanostructured silica-based microspheres for biomedical or catalytical applications S. Simon, O. Ponta, T. Radu, M. Todea, R. Cioban The twenty-first Annual International Conference on COMPOSITES/NANO ENGINEERING ICCE-21 Tenerife, Spain, July 21-27, 2013				
Personal skills and competences					
Mother tongue(s) Other language(s)	Romanian English				
Self-assessment	Unders	tanding	Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	Written production
English	C1 Independent User	C1 Independent User	C1 Independent User	C1 Independent User	C1 Independent User
Organizational skills and competences	 Ability to solve immediate problems under stress and deadlines. Able to organize and lead teams Confident in handling new tasks Quick learner 				
Technical skills and competences	 Equipment use: X-ray photoelectron spectroscopy (XPS), Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM), X-Ray Diffractometer (XRD), Differential Thermal Analyzer (DTA/DSC) 				
Social skills and competencies	- Sociable and a dynamic teamwork person				
Computer skills and competences	 FEM simulations (Ansys Mechanical) Acquisitions software using and data processing Programming techniques: Java, PHP 				
Driving license	- category B				

Professional referees	-	Dr. Leordean Cosmin Dr. Grasin Robert
Annexes		