

<b>[ Personal information ]</b>	
	<b>Name / First name:</b> TUDORAN CRISTIAN DANIEL
	<b>Phone:</b> 0758563202
	<b>E-mail:</b> <a href="mailto:ctudoran.welder@gmail.com">mailto:ctudoran.welder@gmail.com</a> , <a href="mailto:ctudoran@itim-cj.ro">mailto:ctudoran@itim-cj.ro</a>
	<b>Nationality:</b> romanian
<b>Date and birth place:</b>	September 14, 1982, Sighetu-Marmației, Maramureș county
<b>Gender</b>	male
<b>[ Professional Experience ]</b>	
<b>Period:</b> 2008...2014	
<b>Position:</b> 2008...2009 research assistant (on probation) 2009...2014 research scientist	
<b>Main activities and responsibilities:</b> Applied research in the field of microwave technology / applied research in plasma physics / project proposal and project coordination / applied electronics / Design, implementation and testing of electronic prototypes (analog, digital, embedded systems, radiofrequency) with application in plasma physics (RF plasma generators, high voltage switch mode power sources) and in induction heating technology (power inverters for induction heating).	
<b>Employer's name and adress::</b> National Institute for Research and Development of Isotopic and Molecular Technologies, str. Donat no. 67-103, Cluj-Napoca, Department of Molecular and Biomolecular Physics, Microwave Technology Laboratory.	
<b>Period:</b> 2011...2012	
<b>Position:</b> research assistant	
<b>Main activities and responsibilities:</b> Applied research in plasma physics / I led a small research group of 4 persons (including the project manager), research topic: diagnostics and applications of high frequency plasmas generated under atmospheric pressure conditions / I taught electronics labs for 3 <sup>rd</sup> year students.	
<b>Employer's name and adress:</b> Babeș-Bolyai University, Faculty of Physics, Str. Mihail Kogălniceanu nr. 1, Cluj-Napoca, 400084.	
<b>[ Education and training ]</b>	
<b>Period:</b> 1998...2001	
<b>Qualification awarded:</b> Baccalaureate diploma, Assistant programmer certificate, English certificate	
<b>Education organization's name:</b> „Gheorghe Șincai” high-school from Cluj-Napoca, Section: Informatics-Intensive English.	
<b>Period:</b> 2001...2005	
<b>Qualification awarded:</b> BSc licence in Physics, Title of disertation: „Transistorized radiofrequency plasma generator” (+ demonstration module)	

<b>Education organization's name:</b> „Babeş-Bolyai” University, Faculty of Physics
<b>Period:</b> 2007...2009
<b>Qualification awarded:</b> Master's Degree, in solid state physics, specialization: high frequency induction heating. Title of disertation: „Experimental high frequency inverter circuit for induction heating” (+ demonstration module).
<b>Education organization's name:</b> „Babeş-Bolyai” University, Faculty of Physics
<b>Period:</b> 2008...2012
<b>Qualification awarded:</b> PhD in plasma physics. Title of thesis: „Generation and characterization of high frequency plasmas. Applications”
<b>Education organization's name:</b> „Babeş-Bolyai” University, Faculty of Physics.
<b>Foreign languages:</b> Hungarian: mother tongue no. 2, English: advanced, Franch: intermediate, Russian: beginner, Chinese – beginner.
<b>Job related skills:</b> Coordination of small design and research teams (a national post-doc research project), participation in 5 national and international research projects (INCDTIM Cluj-Napoca) and 1 national project (Babeş-Bolyai University). Advanced knowlege of global processes in the generation and applications of high frequency plasmas (radiofrequency and microwave plasmas). Training period at „University College Dublin, Ireland, Faculty of Electric, Electronic and Mechanical Engineering”, Surface Engineering Lab (2010) Thematic: " <b>Microwave plasma sintering of metallic powders</b> ". Experience in interdisciplinary research (physics, chemistry, biology, computer science, electronics)
<b>Training and qualifications:</b> 1) „University College Dublin, Ireland, Faculty of Electric, Electronic and Mechanical Engineering”, Surface Engineering Lab (2010). 2) „ <b>Management of scientific research and project management</b> ” (2010). 3) „ <b>ICT-specific tools</b> ” (2011) 4) „ <b>Training course in research funding</b> ” (2011). 5) „ <b>Training course in communication</b> ”. (2011) @ Faculty of Economics and Business Administration, Cluj-Napoca, project POSDRU 6/1.5/S/3 – ID 5216, Sectoral Operational Programme for Human Resources Development 2007-2013.
<b>Computer skills:</b> Advanced software development in the following languages: BASIC, Pascal, C++, FoxPro, Delphi, assembler (x86), JAL. Development of software for control and data acquisition equipment (data loggers). PIC microcontroller programming. Advanced knowlege of CAD/CAM design applications for electronic circuit design. Very good skills in operation of research related application (MS Office, Matlab, Chemsketch, Scientific Workplace, etc.). Custom web page design and custom graphics / animations.
<b>Scientific activities:</b> Author of 2 national research patents pending, over 13 papers published in ISI journals. 4 plasma generators, designed and built, 2 induction heating systems – designed and built, I designed and built the <b>world's first portable cold plasma reactor for biodiesel production</b> . (Patents pending no. A/00792/27.OCT.2014 and A/00833/07.NOV.2014 )
<b>Hobby:</b> Electronics, software engineering, metallic structure design and fabricatin, welding (ARC, MIG, TIG, oxi-acetylene) and metallurgy, mountain biking, motorcycling, internal combustion engines.