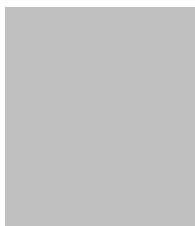



PERSONAL
INFORMATION


Dan Enache

 **National Institute for Research and Development in Electrical Engineering
ICPE - CA**

 +40 784 35 25 13

 dan.enache@icpe-ca.ro

Sex Male

Date of birth 07/05/1984

Nationality Romanian

 POSITION WITHIN THE
PROJECT

Electrical Engineer / Scientific Research Assistant

 WORK
EXPERIENCE

- November 2014 - Present **Electrical Engineer / Scientific Research Assistant**
National Institute for Research and Development in Electrical Engineering ICPE-CA
INCDIE ICPE-CA ; Blv. Splaiul Unirii nr. 313, J Building, District 3,
Bucharest
- Main activities and responsibilities:**
- Numerical modeling (Comsol Multiphysics, Matlab, etc)
 - Specific scientific research activities undertaken in Department of Conversion Efficiency and Energy Consumption - Applied Superconductivity Laboratory
 - Active participation and execution supervision of prototypes and experimental assemblies.
- Business or sector** Scientific research / Electrical Engineering

 EDUCATION
AND TRAINING

- In progress (2014-2017) **PhD**
University Politehnica of Bucharest, (UPB)
Faculty of Electrical Engineering (FIE)
- Learning outcomes of the programme of study:**
- Knowledge and understanding of principles, concepts and theories of superconductivity
 - Design of elements specific of superconductivity : superconducting coils, superconducting magnets, cryogenic cooling systems, etc.
 - Numerical modeling specific to superconductivity
- 2012 – 2014 **Master Engineer (M.Eng.)**
University Politehnica of Bucharest, (UPB)
Faculty of Electrical Engineering (FIE)
Power electronics and intelligent electrical drive (EPA)
- Learning outcomes of the programme of study:**
- Special electrical issues

- Modeling electromechanical converters , static converters modeling and control, virtual systems analysis parameters static converters
- Knowledge and understanding of research techniques (documentary , experimental design / numerical simulations , conduct the experiment / numerical simulation and experimental obtaining information , the processing thereof)
- The thermal stability of electrical and electronic systems
- control , monitoring and diagnosis of electrical drives
- Specific Legislation and rules in Electrical Engineering

2008 – 2012

Engineer (Eng.)

University Politehnica of Bucharest, (UPB)

Faculty of Electrical Engineering (FIE)

Power electronics and electrical drive (EA)

Learning outcomes of the programme of study:

- Analyze , calculation and design of power electronics and electric drive
- Knowledge and use of specific software (Matlab , Simulink , PSIM)
- Knowledge and application of measurement techniques , testing , diagnosis and electromagnetic compatibility specific to the field .

1999 – 2003

Romanian baccalaureate – Highschool diploma

“Carol I” Theoretical Highschool , Fetesti

Departament of “Mathematics and Physics”

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	English	B2	B2	B2	B1
French	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2: Proficient user

Common European Framework of References for Languages

Communication skills

- **Team work** : Within my last jobs i haved worked in various teams, under guidance of several senior engineers or scientific researchers , and a good communication skills was mandatory for the smooth running of projects.

Digital competence

SELF - ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Proficient User	Proficient User	Proficient User

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Computer skills
- Good knowledge of numerical modeling program : Comsol Multiphysics ▪
Basic knowledge of Matlab / Simulink
 - basic knowledge of the program of detailed 2D / 3D : Solidworks
 - Good knowledge of Microsoft Office programs (Word , Excel , Powerpoint , etc.)
 - Good knowledge of program conducted mathematical calculations : MathCAD

Driving licence No

ADDITIONAL
INFORMATION

ANNEXES

Documents attached to CV and available on request:

- copies of courses certificates or diplomas ;
- references and recommendation letters form previous jobs;