

**PERSONAL INFORMATION**

**eng. Andrei Dobrin**



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

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Gender: Male

Date of birth: 17 / 10 / 1986, Bucharest

Nationality: Romanian

**POSITION WITHIN INCIDIE  
ICPE-CA**

*Scientific Research Assistant*

**WORK EXPERIENCE**

October 2014 – present



**Mechanical Design Engineer / Scientific Research Assistant**

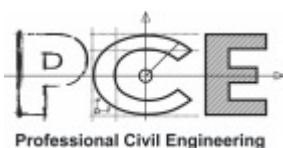
National Institute for Research and Development in Electrical Engineering ICPE-CA  
INCIDIE ICPE-CA ; Blv. Splaiul Unirii nr. 313, J Building, District 3, Bucharest

Business or sector : Scientific research / Mechanical Engineering

Main activities and responsibilities:

- Mechanical product design activities using specialized CAD software ( Autocad, Solidworks, Inventor, 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.

June 2012 - June 2014



**Structural design engineer**

SC Professional Civil Engineering SRL  
189,Blv. Splaiul Unirii, District 3, Bucharest

Business or sector: Civil Engineering

Main activities and responsibilities:

- Detailing structures ( mainly reinforced concrete and steel ) for various civil and industrial buildings using CAD software.
- Structural design of the elements
- Bill of materials and bill of quantities preparation.
- Technical written documentation preparation for different project phases.
- Technical documentation packages (written documentation and drawings ) preparation for delivery (plotter printing, cutting, folding drawings, packing, liaising with couriers )

April 2012 – June 2012



### Junior structural design engineer

SC Saco Construct SRL

61, Buzesti street , District 1, Bucharest

Business or sector: Civil Engineering

Main activities and responsibilities:

- Detailing structures ( mainly reinforced concrete and steel ) for various civil and industrial buildings using CAD software.
- Preliminary design of structural elements
- Bill of materials and bill of quantities preparation.

## EDUCATION AND TRAINING

2009 – 2011



### Master Engineer (M.Eng.) – Structural Engineer

Technical University of Civil Engineering Bucharest

Faculty of Civil, Industrial and Agricultural Buildings

Master of “Structural Engineering”

Learning outcomes of the programme of study:

- Knowledge and understanding of principles, concepts and theories of structural engineering
- Identify, analyse and solve the structural engineering problems using a multidisciplinary approach; analysis of structural engineering problems of multiple view points: cost, benefit, safety, social and environmental impact.
- Knowledge and understanding of research techniques which include information retrieval, experimental design and statistics, modelling, conclusions and preparation of research reports
- Using the relevant computer programs and the advanced computer aided design.
- Preparation as coordinator of detailed design projects for civil, industrial and agricultural buildings for all earthquake importance and exposure classes as defined by P100-1/2006 design code.

2005 – 2009



### Engineer (Eng.) – Civil Engineer

Technical University of Civil Engineering Bucharest

Faculty of Civil, Industrial and Agricultural Buildings

Department of “ Civil, Industrial and Agricultural Buildings

Learning outcomes of the programme of study:

- Designing within special boards of the technical and manufacturing projects for civil, industrial and agricultural buildings of the III and IV earthquake importance classes, as they are defined in P100-1/2006.
- Management of construction work and maintenance in construction.
- Supervising of construction work manufacturing.
- Supervising of design/ programs for buildings rehabilitation.
- Planning, organizing and management of technical, economic and human resources for construction work.
- Computer designing and use of specific software.

Internship ( at Technical University of Civil Engineering Bucharest ) :

- June 2008 – August 2008  
*Activity : civil works survey on site / factories*
- June 2007 – August 2007  
*Activity : topographic survey*
- June 2006 – August 2006

*Activity: study of obtaining and processing technology of different materials ( metallic materials, polymeric materials ) in factories*

2001 – 2005



### Romanian baccalaureate – Highschool diploma

“Dante Alighieri” Theoretical Highschool , Bucharest  
Department of “Mathematics and Computer Science”

#### COURSES AND CERTIFICATIONS

September 2015



#### Fundamentals of Autodesk AutoCAD LT 2016

GeCAD NETSRL ( Authorized Training Center Autodesk )

- AutoCAD overview
- Presentation of tools for creating drawings and manipulation / modification objects, objects property presentation
- Advanced drawing techniques (layers, line types, etc), adnotations ,adding dimensions, hatching
- Blocks and attributes, dynamic blocks
- Layouts and viewports , plotting
- Creating templates
- *Certificate no. 230074*



September 2015



#### Fundamentals of Autodesk Revit Structure 2016

GeCAD NETSRL ( Authorized Training Center Autodesk )

- Revit Structure overview
- Basic modeling (families, types and instances; levels and axes; vizibility)
- Structural elements representation ( foundations, columns, beams, plate elements )
- Element properties change, adding dimensions and constrains
- Views, sections and layouts; text elements ; printing and plotting
- Family editor and conceptual modeling
- *Certificate no. 677372*



March 2010



#### Axis VM v.9 Basic Training

Consoft Training Center

- Learning the basics of the program. Basic working techniques.
- P+8E reinforced concrete building 3D modelling. The main structural elements design.
- Metallic hall 3D modelling The main structural elements design.

April 2010



#### Tekla Structures v.16 Basic Training

Consoft Training Center

- Learning the basics of the program. Basic working techniques.
- Modeling mixed reinforced concrete and steel structure and creating its drawings plans.

May 2005



MINISTERUL  
EDUCAȚIEI  
CERCETĂRII

#### Certificate of professional competence in computer use

Ministry of Education and Research – Romania

- C++ procedural programming
- Working with Database Management Systems (DBMS) - Microsoft FoxPro
- Working with folders and files ; working with web browsers ; working with text editors, spreadsheets, presentations (Microsoft Office – Word, Excel , Powerpoint )
- Web-design : web pages design using HTML editor - Microsoft FrontPage)

**PERSONAL SKILLS**

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A2	A2	A2	A2	A2

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 - ASSESMENT				
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](#)

**Certificate of professional competence in computer use**  
 ( Ministry of Education and Research – Romania )

Computer skills

- Good command in 2D/3D computer aided design and drafting software : **AutoCAD**
- Knowledge of 2D/3D computer aided design and drafting software : **Revit Structure**
- Knowledge of 2D/3D computer aided design and drafting software : **Solidworks, Inventor**
- Good command in **Microsoft Office** programs (**Word, Excel, Powerpoint,etc**)
- Good comand in engineering calculation software : **MathCAD**
- Good command in structural and design software using FEM: **ETABS, SAP2000**
- Knowledge of structural analysis and design software using FEM: **Axis VM**
- Knowledge of steel structures detailing software : **Tekla Structures**

Driving licence

- Category A
- Category B

**ANNEXES**

Documents attached to CV and available on request:

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