



## PERSONAL INFORMATION

Name	<b>NICOLAE VASILIU</b>
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Nationality	Romanian
Date of birth	28.08.1946

## WORK EXPERIENCE

- Dates (from – to) 2012 -
- Name and address of employer SIEMENS INDUSTRY SOFTWARE
- Type of business or sector ITC
- Occupation or position held Scientific Adviser
- Main activities and responsibilities Fluid Power Systems Modeling and Simulation Software
  
- Dates (from – to) 2012-
- Name and address of employer TEXAS INSTITUTE OF SCIENCE
- Type of business or sector Scientific research
- Occupation or position held Researcher
- Main activities and responsibilities Researches in the field of high pressure fluid power systems
  
- Dates (from – to) 2012 -
- Name and address of employer ROMANIAN ACADEMY OF TECHNICAL SCIENCES
- Type of business or sector Scientific Academy
- Occupation or position held Corresponding Member
- Main activities and responsibilities Electrical and Power Section
  
- Dates (from – to) 2010 -
- Name and address of employer ROMANIAN ACADEMY
- Type of business or sector National Academy
- Occupation or position held Member of The Romanian Committee For History and Philosophy of Science and Technique
- Main activities and responsibilities Science History Division
  
- Dates (from – to) October 1994 – current
- Name and address of employer University POLITEHNICA of Bucharest, 313 Splaiul Independentei st., Sector 6, 060042, Bu-  
charest
- Type of business or sector Higher education
- Occupation or position held Professor
- Main activities and responsibilities Director of the Fluid Power Systems Ph.D. Study Cycle  
Director of the Fluid Control Systems Master Study Cycle (1994-2012)  
Teaching and research activities in the Power Department, Automotive Engineering Department,  
Mechanical Engineering Department, English Department, French Department. Courses: Fluid  
Control Systems, Automotive Fluid Control Systems; Fluid Machines and Systems; Numerical

- Simulation and Computer Aided Design of the Fluid Power Systems; Diploma projects co-ordination.  
 Head of Fluid Power Laboratory  
 Head of AUTODESK TRAINING CENTER (from 1991)  
 Head of FESTO TRAINING CENTER (from 1993)  
 Head of SIEMENS AMESIM Romanian Training Center (from 2010)  
 Director of ENERGY & ECOLOGY RESEARCH CENTER (from 1996)
- Dates (from – to) October 1999 – October 2010
  - Name and address of employer National Research Management and Technology Transfer Agency (AMCSIT POLITEHNICA), 313 Splaiul Independentei St., Sector 6, 060042, Bucharest
    - Type of business or sector Research Management
    - Occupation or position held Scientific Manager 1999-2005 and General Manager (2005-2010)
  - Main activities and responsibilities Scientific management of the R&D projects in the ROMANIAN Research Programs RELANSIN and INNOVATION
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- Dates (from – to) October 1995 – current
  - Name and address of employer ENERGY & ENVIRONMENTAL PROTECTION RESEARCH CENTER from University POLITEHNICA of Bucharest, 313 Splaiul Independentei St., Sector 6, 060042, Bucharest
    - Type of business or sector R&D
    - Occupation or position held Director
  - Main activities and responsibilities Management of the R&D projects in the field of energy and environmental protection
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- Dates (from – to) October 1999 – current
  - Name and address of employer NATIONAL R&D INSTITUTE FOR ENVIRONMENTAL PROTECTION, 294 Spl. Independentei St., Sector 6, Bucharest, 060031, ROMANIA
    - Type of business or sector Scientific Management for International Projects
    - Occupation or position held Scientific Manager
  - Main activities and responsibilities Scientific Management of the UNIDO Project Nr. GF/ROM/02/020 - ROMANIA
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- Dates (from – to) 1994, 1996, 1998, 2000, 2002
  - Name and address of employer INSA Département de Génie Mécanique  
135 Avenue de Rangueil, F31077 Toulouse Cedex 04 TOULOUSE, FRANCE
    - Type of business or sector Higher education
    - Occupation or position held Visiting Professor in MECAF team (Head – Professor: Jean-Charles MARE)
  - Main activities and responsibilities Teaching and research activities in Fluid Control Systems, PhD co-ordination.
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- Dates (from – to) October 1990 - October 1994
  - Name and address of employer University POLITEHNICA of Bucharest, 313 Splaiul Independentei, Sector 6, 060042, Bucharest
    - Type of business or sector Higher education
    - Occupation or position held Associated Professor  
Fluid Power Systems PhD School Director  
Fluid Control Systems Master Study Cycle Director
  - Main activities and responsibilities Teaching and research activities in the Power Department, Mechanical Engineering Department, English Department, French Department. Courses: Fluid Control Systems, Fluid Power Systems; Fluid Machines and Systems; Numerical Simulation and Design of the Fluid Control Systems; Diploma projects co-ordination.  
Head of Fluid Power Laboratory  
Head of AUTODESK TRAINING CENTER  
Head of FESTO TRAINING CENTER
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- Dates (from – to) 1980-1990
  - Name and address of employer NATIONAL AEROSPACE INSTITUTE 220, Pacii St., Sector 6, Bucharest, 060031, ROMANIA
    - Type of business or sector R&D

- Occupation or position held Associated Scientific Researcher
- Main activities and responsibilities CAD for Aerospace Hydraulic Servosystems
- Dates (from – to) March 1977 – September 1990
- Name and address of employer Polytechnic Institute of Bucharest (University POLITEHNICA of Bucharest from 1992), 313, Splaiul Independentei St., Sector 6, 060042, Bucharest
- Type of business or sector Higher education
- Occupation or position held Lecturer
- Main activities and responsibilities Teaching and research activities in the Power Department, Mechanical Engineering Department, Automotive Engineering Department. Courses: Fluid Mechanics, Fluid Power Systems; Fluid Machines and Systems; Diploma projects co-ordination.  
Head of Fluid Power Laboratory
- Dates (from – to) August 1969 – March 1977
- Name and address of employer Polytechnic Institute of Bucharest, 313 Splaiul Independentei St., Sector 6, 060042, Bucharest
- Type of business or sector Higher education
- Occupation or position held Assistant professor
- Main activities and responsibilities Teaching and research activities in the Power Department, Mechanical Engineering Department, Automotive Engineering Department. Courses: Fluid Mechanics, Fluid Power Systems; Fluid Machines and Systems; Diploma projects co-ordination.

## EDUCATION AND TRAINING

- Dates (from – to) March 2002
- Name and type of organization providing education and training SOCIETE IMAGINE, 5, rue Brison 42300 ROANNE, FRANCE
- Principal subjects/occupational Skills covered Training in Numerical Simulation of the Fluid Control Systems by AMESIM, in the team of Professor Michel LEBRUN from UNIVERSITY CLAUDE BERNARD LYON
- Title of qualification awarded Head of IMAGINE Romanian Training Center
- Dates (from – to) 1992, 1993, 1994
- Name and type of organization providing education and training FESTO Company, Austrian Branch - Festo Ges.m.b.H., 14, Lützowgasse, A -1140 Wien
- Principal subjects/occupational skills covered Training in Educational Systems for Fluid Control Systems
- Title of qualification awarded Head of FESTO Romanian Training Center
- Dates (from – to) October 1970 – October 1977
- Name and type of organization providing education and training Polytechnic Institute of Bucharest, Faculty of Power Engineering
- Principal subjects/occupational skills covered Thesis Title: Researches on the Hydrodynamics of the Radial-axial Turbomachinery Runners
- Title of qualification awarded PhD
- Dates (from – to) January 1973 – July 1973
- Name and type of organization providing education and training STATE UNIVERSITY OF GAND and VON KARMAN INSTITUTE from BRUXELLES
- Principal subjects/occupational skills covered PhD student under the direction of professor GERARD TISON, Head of Fluid Mechanics Laboratory
- Title of qualification awarded
- Level in national classification (if appropriate)
- Dates (from – to) October 1964 – July 1969

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded
  - Level in national classification (if appropriate)

Polytechnic Institute of Bucharest, Faculty of Power Engineering

Hydropower systems

Master of Science in Hydropower Engineering

The first in the series 1969 of 240 graduates (overall average 9.95 from 10)

**PERSONAL SKILLS AND COMPETENCES**

*Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.*

**MOTHER TONGUE**

**ROMANIAN**

**OTHER LANGUAGES**

- Reading skills
- Writing skills
- Verbal skills

**ENGLISH**

Excellent

Excellent

Excellent

- Reading skills
- Writing skills
- Verbal skills

**FRENCH**

Excellent

Excellent

Excellent

- Reading skills
- Writing skills
- Verbal skills

**Italian**

Good

Good

Good

- Reading skills
- Writing skills
- Verbal skills

**Russian**

Good

Poor

Poor

**SOCIAL SKILLS AND COMPETENCES**

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

I have worked in various types of teams from educational activities to scientific research teams, which employed many people of various professional skills and ages.

I worked with professors from different European Universities and I was faced with the task of coordinating several activities, which required for these team members to work closely together.

I have permanent human and scientific contacts with the following universities and companies: INSA - Toulouse, University CLAUDE BERNARD-Lyon, TUHH-Hamburg, University JOHANNES KEPLER - Linz, University of MONASH – Australia

**ORGANIZATIONAL SKILLS AND COMPETENCES**

*Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*

In the last 47 years, I organized and coordinated the research activities in my laboratory and in my faculty. My team solved many themes financed by the National Council for Science and Technology as CNCSIS D176/2000-2002 Project, and many industrial technical problems.

In my position of Scientific Director of the National Research Management and Technology Transfer Agency, I am managing a R&D budget of over 100 Million EURO.

I organized a series of seminars on research methods in fluid power systems and some international conferences.

I am in permanent contact with many European companies as: BOSCH-REXROTH, SIEMENS, LMS IMAGINE, WIKA, VOITH, KEITHLEY, RITTMAYER, DANFOSS, GRUNDFOSS, ABS, ADAPTECH, FESTO, SAUER-DANFOSS, PORSCHE, BUDERUS, EDWARDS etc.

TECHNICAL SKILLS  
AND COMPETENCES  
*With computers, specific kinds of equipment, machinery, etc.*

Programming in FORTRAN, C, ADBASIC, MATLAB, SIMULINK, ACSL, MATHCAD, AUTOCAD, MECHANICAL DESKTOP, INVENTOR, SOLIDWORKS, SIMBAD, WINREG, WINPIM, VISSIM, TEST POINT, LABVIEW, AMESIM, ANSYS, AUTOMATION STUDIO, FLUIDSIM

ARTISTIC SKILLS  
AND COMPETENCES  
*Music, writing, design, etc.*

DESIGN, SCULPTURE

OTHER SKILLS  
AND COMPETENCES  
*Competences not mentioned above.*

CAR REFURBISHING

DRIVING LICENCE(S)

Romanian License B

**ADDITIONAL INFORMATION**

**PUBLICATIONS**

29 Books, over 200 Scientific Papers, 7 Patents, over 300 Research Works by contracts with the Romanian and foreign industry.

**AFFILIATION**

Member of SIA, ASME, EUROSIS, FLUIDAS, AGIR, FPNI

Head for Romania of the FLUID POWER NET INTERNATIONAL

Member of Scientific Committee of the INTERNATIONAL JOURNAL OF FLUID POWER

Scientific Advisor of the following companies: SIEMENS INDUSTRY SOFTWARE, RENAULT TECHNOLOGIES ROUMANIE, AEROTEH, CEROB, ICPEST

Member of the Scientific Board of the SCIENTIFIC BULLETIN, UNIVERSITY POLITEHNICA OF BUCHAREST

28.08.2019