PERSONAL INFORMATION

# Catalin Gheorghe AMZA



Bucharest, Romania

+4 021 402 9541 (birou); +4 021 402 9337 (secretariat departament)

acata1@camis.pub.ro; amza_catalin@yahoo.com

www.camis.pub.ro

Sex M Date of birth 08/03/1975| Nationality Romanian

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

## Abilitare

WORK EXPERIENCE

2015 - prezent

### Professor

Universitatea Politehnica Bucuresti, Facultatea Ingineria Indsutriala si Robotica, Ingineria Calitatii si Tehnologii Industriale, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2009 - 2015

### Associate professor

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2004 - 2009

### Lecturer

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2001 - 2004

### Asistent Teaching assistant

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2001 - 2002

### Teaching asistant (asistent)

De Montfort University, Leicester, United Kingdom, The Gateway, LE1 9BH, www.dmu.ac.uk

Business or sector Higher Education/research

1998 - 2001

### Teaching assistant

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

Universitatea Politehnica Bucuresti, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

- Calculatoare si programe utilitare, anul III, laborator
- Tehnologia Informatiei si Sisteme Interactive, anul III, laborator

Business or sector Higher Education/research

1994 - 1998 **Computer operator**

AMG INTERCOM SRL, Bucuresti, Romania

- Design si grafica, desktop publishing

Business or sector SME/Desktop publishing

## EDUCATION AND TRAINING

2010 - 2013 **Postdoctoral degree diploma** ISCED 6

Universitatea Politehnica din Bucuresti, Facultatea IMST

- Image processing
- artificial intelligence
- NDT penetrant
- industrial automation

2011 - 2013 **Master of Science in Quality Evaluation of materials and products (ECMP), Industrial Engineering** ISCED 6

Universitatea Politehnica din Bucuresti, Facultatea IMST

- quality inspection
- Non-destructive control

1999 - 2002 **PhD diplome in Computer Science** ISCED 6

De Montfort University, Leicester, United Kingdom

- Image processing
- radiographic imaging
- artificial intelligence
- Non-destructive control

1998 - 1999 **Master of Science in Human Computer Systems** ISCED 6

De Montfort University, Leicester, United Kingdom

- Artificial Intelligence, Virtual Environments, Intelligent and Autonomous Robots, Cognitive Psychology, Evolved Interfaces, Human Factors in ICT Systems

1993 - 1998 **Computer Science Engineer** ISCED 5B

Universitatea Politehnica din Bucuresti, Facultatea de Automatica si Calculatoare, Sectia Calculatoare

- Software
- databases
- Interface design
- electronic and integrated devices
- assisted design
- expert systems
- artificial intelligence
- Numerical calculation

1989 - 1993 **Bacalaureat diploma** ISCED 4B

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

Liceul de Informatica (Matematica Fizica nr. 1), Bucuresti

- computer
- mathematics
- physical
- Romanian
- English

## PERSONAL SKILLS

Mother tongue(s): Replace with mother tongue(s)

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 Reference for Languages

Communication skills

- good communication skills acquired through the experience of manager or project manager for projects with national and European funding
- good communication skills acquired through the activity of the university (working with the students, with the other colleagues, etc.)

Organisational / managerial skills

- Project management: experience gained in European-funded research / development / innovation projects (Longlife Learning, Structural Funds, Erasmus+, EEA grants, National funded grants) – more than 15 project managed in the capacity of project manager or project responsible
- Research / development / innovation center management - experience gained through first-time management as a research director and then as director of the Research / Development / Innovation Center UPB - CAMIS (Center for Research, Consulting and Technical Assistance in Materials Engineering and Welding) from the TMS department, IMST Faculty, Polytechnic University of Bucharest – currently managing over 12 EU funded RDI projects with
- Organizational skills gained through the organization of ANC professional training programs (CNFPA), training programs recognized by CNFP and a postgraduate ICT program for teaching staff in postgraduate education

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

**Job-related skills**

- The skills gained in over 20 years in higher education are curriculum design and development, research and professional training, teamwork skills and communication with both students and colleagues, understanding of modern learning / teaching / training concepts, Ability to create successful relationships between business and university.

- Since 2002, I have continuously modernized and managing the Information Technology Lab for students from the specialties of Quality Engineering, Welding Engineering and Industrial Safety Engineering.

- In 2004 I set up the Industrial Automation Laboratory, which I was responsible for until 2012. Within this laboratory, students can experiment with CAD technologies using a KUKA IR welding robot. We have completed 3 completely new laboratory works for IMST, Mechanics, ISB, Transport and Aircraft students at the Materials Technology discipline.

- In 2017 I successfully created and I am currently managing the Additive Manufacturing Research Laboratory.
  I have gained experience in logistics and human resources through the fact that I am responsible for the above mentioned laboratories.

- Since 2009 I have been a Research Director at the UPB-CAMIS Research / Development / Innovation Center, and since 2013 I have been the Director of this Center. From this perspective I have acquired managerial skills and teamwork and communication skills, including with the business environment.

- Responsible for Master's Degree Program Quality Engineering 2016-present, UPB, IMST
- I am responsible for the CAMIS e-Learning Management System and in this capacity I have learned how to setup and customise an e-learning platform and how to convert educational materials into e-learning format.

**Computer skills**

Programare
- C, C++, DBase, Assembler, Pascal, Visual Basic, Borland Delphi, HTML, Java, JavaScript, CSS, XML, XSL

Sisteme de Operare
- Windows 3.11/95/98/2000/NT/XP/Vista/7/8, Dos, Unix, Linux

Pachete software
- Microsoft Office (Word, Excel, PowerPoint, Access, FrontPage, Publisher)

Graphics and Design
- Corel Draw, Photo-Paint, SPICE, Macromedia Director, Macromedia Flash

CAD
- Autocad, AutoCAD Inventor, Trimble Sketch-up, Mechanical Design, CATIA, ANSYS
- Additive manufacturing Slicing software
- Virtual and Augmented reality generation software
- E-learning platforms (e.g. Moodle)

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

**Research skills**

- Throughout my work, I coordinated students from BSc and MSc programmes for Student Scientific Communication Workshops, some of whom were awarded by the Evaluation Commissions.
  The scientific research activity is based largely on continuing doctoral and postdoctoral studies. Research experience has been gained also by being a Research Director and Managing Director for the Research Development and Innovation CAMIS center within University Politehnica of Bucharest (www.camis.pub.ro). Thus, my main concern is the application of information technology to industrial processes, as part of the Industry 4.0 related concepts, especially for quality control of products and processes and their automation and additive manufacturing technologies. The publishing activity consists of the presentation of some original results, some of which are successfully applied in the industry (automatic detection of bone fragments in the food industry - algorithms based on image processing and artificial intelligence applied to radiographic images of the controlled product - system built and marketed by Spectral Ltd. in the United Kingdom) and various research findings in the field of 3D printing. Within the research activity I have always made a sustained effort to obtain and realize research / development / innovation contracts through various competitions. I coordinated as project director 6 international research-development-innovation projects, 4 research projects with national funding and more than 10 projects as project responsible. I also participated as an expert in several research contracts with national or international funding. Fields of research and interest include:

- Additive Manufacturing
- Techniques of Artificial Intelligence applied to industrial engineering
  - Radiographic imaging and image processing
  - CAD / CAM systems; computer assisted manufacturing
  - Augmented and Virtual Reality
  - Introduction of information technology and computers into industrial processes
  - Modeling and finite element simulation
  - Intelligent composite materials
  - Ultrasounds and their applications
  - Automation of production systems
  - Computerization and automation of quality and material quality evaluation processes

**Other skills**

- Hobby: enthusiastic aquarist, member of the Aquaristic Association of Romania
- Bowling: Member and former player in the National Bowling Championship in Romania
- Keen fisherman

**Driving licence**

- B, since 1993

## ADDITIONAL INFORMATION

**Publications**

Over 15 academic books in publishers with ISBNs; over 10 specialized / technical books with ISBN; 2 theses; over 40 scientific papers indexed ISI / BDI; 11 scientific papers in periodicals with international circulation; 5 scientific papers in periodicals with national circulation; 24 scientific papers in international events; 15 scientific papers in national events; co-author of 7 patents

**Affiliations**

- Asociatiei Romane de Tehnologii Neconventionale
- Asociatia pentru Ecotehnologie, membru fondator
- Asociatia Universitara de Ingineria Fabricatiei

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

Expert evaluator

- **Expert for the European Commision Horizon 2020** programme, 2015-present
- **External reviewer** conferinta ICSAAM 2017, http://www.icsaam2017.pub.ro/committees/scientific
- **External reviewer** revista indexata ISI – Entropy, 2017, ISSN: 1099-4300
- **External reviewer** revista indexata ISI – 3D printing and additive manufacturing, 2017, ISSN: 2329-7662
- **External reviewer** revista indexata ISI – Sensors, 2017, ISSN: 1424-8220
- **External reviewer** revista indexata ISI – Nuclear Science, 2015, ISSN: 1001-8042
- **External reviewer** ICAET 2015
- **External reviewer** revista Elsevier Measurement 2017, ISSN: 0263-2241
- **External reviewer pentru programul de cercetare Horizon 2020 al Comisiei Europene**, 2015, 2016, 2017 - http://ec.europa.eu/research/participants/data/ref/h2020/experts_lists/industrial/ict/h2020-expertslists-industrial-ict-2014_en.xlsx
- **External reviewer Autoritatea Nationala pentru Calificari** (ANC), 2014-prezent
- **External reviewer faza B POSDRU,** august 2013-martie 2014 (CPP138, 139, CPP 165, CPP152)
- **External reviewer ANPCDEFP pentru programul ERASMUS+** (exercitiul 2014-2020) al Comisiei Europene**,** 2014-prezent
- **External reviewer CNCSIS** pentru proiectele de **Cercetare exploratorie, Programul PN2, IDEI, 2008**
- **External reviewer** pentru revista indexata ISI Thomson Reuters **Machine Vision and Applications**, ISSN: 0932-8092, Journal no. 138, Springer, http://www.springer.com/computer/computer+imaging/journal/138 ; http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=0932-8092
- **External reviewer** pentru revista indexata ISI Thomson Reuters **Nuclear Science and Techniques**, ISSN: 1001-8042, http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Full=nuclear%20science%20and%20techniques
- **External reviewer ANPCDEFP** pentru proiectele de Long Life Learning, Leonardo da Vinci, Transfer of Innovation finantate de Comisia Europeana, din 2009 – prezent
- **External reviewer EC-EACEA** pentru proiectele de Long Life Learning, Leonardo da Vinci, Development of Innovation, finantate de Comisia Europeana, Brussels, din 2011 - prezent
- **Expert pentru Romania** in cadrul EU tender EUMIDA "Feasibility study for creating a European university data collection" (2009-2010)
- **external reviewer** in International Conference on Computational Intelligence and Communication Networks (CICN), www.cicn.in

Specializations

- Project Evaluator, COR 241263, Bucharest, 05.02.2016, ANC certificate 00031054 / 12.07.2016
- Project manager, COR 242101, Bucharest, 19.02.2016, ANC certificate 00031048 / 20.02.2017
- Certificate of graduation, 1 year course on Pedagogy in didactic activity, University Politehnica of Bucharest, 2007-2008
- Computer Operator Certificate and Developer Analyst (High School of Informatics, Bucharest, 1993)
- Non-destructive Defectoscopy Diploma, PM Specialization, Level 2 (Politehnica University Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Non-destructive Defectoscopy Diploma, US Specialization, Level 2 (Politehnica University Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Non-destructive Defectoscopy Diploma, LP Specialization, Level 2 (Politehnica University of Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Internal Audit Diploma, (Politehnica University of Bucharest, 2004)
- Lecturer and certified examiner for ECDL courses,
- ECDL CAD Diploma, 2008
- Trainer Certificate, May 2011

© European Union, 2002-2013 | http://europass.cedefop.europa.eu

Conferences/workshops

▪ Member of the Scientific Committee of ICSAAM 2017, Bucharest, Romania
▪ Member of the Scientific Committee of WSEAS Multi-Conference Bucharest, Romania, April 20-22, 2010, with ISI proceedings
▪ Chairman of International Conference ECC - Computing, WSEAS Multi-Conference, Bucharest, Romania, April 20-22, 2010, with ISI proceedings
▪ Permanent member of the organization committee of the TQSD (Technology and Quality for Sustained Development)
▪ Co-chair of the WSEAS (World Scientific and Engineering Academy and Society) European Computing Conference 2010, www.wseas.org
▪ Co-chair of the WSEAS (World Scientific and Engineering Academy) Computational Intelligence 2010, www.wseas.org
▪ FINITE DIFFERENCES - FINITE ELEMENTS - FINITE VOLUMES - Frontier Elements (F-and-B '10) Conference 2010, www.wseas.org ▪ Co-chair of the WSEAS (World Scientific and Engineering Academy and Society)
▪ Co-chair of the WSEAS (World Scientific and Engineering Academy and Society) European Energy and Environment (EEETE '10) Conference 2010, www.wseas.org
▪ Member in International Scientific Committee and External Reviewer at the International Conference on Computational Intelligence and Communication Networks (CICN 2010), www.cicn.info
▪ Program Committee member, International Conference on Computational Intelligence and Communication Systems, 2010, 2011, 2012, 2013

PhD award committees

• PhD External Evaluator, "A Feasible Solution Space Filtering Approach from" Life-oriented Product Structure Specifications "submitted by Ms. Alexia Grech for being graduated from University of Malta, 2011
▪ Scientific Reviewer University Politehnica of Bucharest, decision Senate of UPB no. 2429 of 25/11/2013, Dusmanu Teodora Chicioreanu, "Motivation and innovative training strategies. Contrast analysis - technical and artistic education, starting in 2013
▪ Scientific Reviewer University Politehnica of Bucharest, Senate Decision no. 244 / 01.07.2016, Viorica Aionesie, THEORETICAL AND EXPERIMENTAL CONTRIBUTIONS ON THE ENVIRONMENTAL IMPACT OF A MACHINERY CONSTRUCTOR, 2017

Invited professor

▪ lecturer within the "Universitatii Virtuale de Afaceri", proiect PHARE, 2002-2004
▪ **Invited lecturer** for the "Adult training course on Integrated Sustainable Development" course, ISD-MT07-15, Malta, 10-14 September 2007
▪ Visiting Lecturer for EU Grundtvig In-Service Training course on Eco Innovation and Sustainable Development, modulul Computer Aided Tools for Eco Design, 10-14 septembrie 2012, Malta

Vocational training

▪ Responsible for the project "Active on the Labor Market: Technical Skills and Competencies for Integration and Labor Market Employability", Contract no. POSDRU / 125 / 5.1 / S / 125723, 2014-2015, long-term expert
▪ Training Coordinator - Project POSDRU ID 150650 ANTREPRENOR- Successful Business Ideas and Entrepreneurship Development in the Bucharest-Ilfov and South-West Oltenia Regions Project Coordinator Formation of Teaching Staff in Secondary Education (ISCED 2-3) in order to use information technology and e-learning tools in teaching activity, project POSDRU / 87 / 1.3 / S / 64227, 2010-2012, accrediting CNFP courses Accreditation technologies online (89 hours) and online learning tools (40 hours) ICT Trainer, 2010-2012
▪ "Development of key competences for successful national evaluations!", Contract Code: POSDRU / 153 / 1.1 / S / 138267 - CNFP Training Program Coordinator "Developing Skills for Creating Key Competencies for Secondary School Students
▪ Postgraduate Course Coordinator "Information and Computer Technology" (professional conversion course for teachers in pre-university education), 2009-2010
▪ Trainer in the post-graduate professional conversion course "Vademecum in Information Technology", 2009-2010 (Module Operating Systems and Internet and Web Design)
▪ Trainer for Ialomita Teaching Staff House (Casa Corpului Didactic), Web Design Course, 2012

Awards

- GOLD MEDAL – The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe

AMZA.

- Trophy and Special Health and Medicine Award INNOVA 2015, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Medal and Diploma INNOVA 2015, given by European France Inventeurs, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Medalie și diploma dată de Eurobusiness-Haller and Haller Pro Inventio Foundation, din partea delegației Republicii Polonia, cu ocazia Brussels INNOVA 2015
- Trophy and Diploma INNOVA 2015, given by ORIGITIE Institute of Health and Beauty by Doctor Mukhina, Russian Delegation, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Distinctia The Merits of Innovation - Chevalier Européen (in grad de cavaler), European Innovation Awards, Brussels, 2015
- PREMIUL pentru Medicina si sanatate premiu oferit de Cezar Caluschi GM at Oameni si Companii in cadrul GALA GLOBAL MANAGER-GLOBAL INNOVATION, GLOBAL TECHNOLOGY 2015, organizata in data de 8 dec. 2015 la Hotel CARO, Bucuresti, de OAMENI SI COMPANII - Connecting leaders. Spreading Ideas. Changing minds
- The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016; The The Academy of Technical Sciences-Cluj branch TUC-N Great Prize Pro-Invent 2016 and Trophy (Marele Premiu al UTC-N si Trofeul) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Diploma of Excellence awarded by University of Craiova, Romania-The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016. for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- Diploma of Excellence and Trophy (Diploma de Excelenţă şi Trofeu) awarded by The Agency of Intellectual Property of the Republic of Moldova - The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016 for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- Diploma of Excellence awarded by Technical University of Moldova, Republic of Moldova - The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016 for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- GOLD MEDAL-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAŞI – ROMANIA , Ediția a VIIa, 20-21 Mai 2016 (EUROINVENT este singurul eveniment din România care se desfășoară cu sprijinul IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations, devenind astfel un eveniment european de elită în domeniul inovării și cercetării) (http://www.euroinvent.org) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Special Innovation Award-Union of Inventors MOROCCO -- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAŞI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (http://www.euroinvent.org) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Scientific Contribution Award-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAŞI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (http://www.euroinvent.org) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Special Award – ZAGREB INVENTORS ASSOCIATION-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAŞI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (http://www.euroinvent.org) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA
- GOLD MEDAL-- Salonul Internațional de Invenții și Inovații ,,TRAIAN VUIA" Timișoara ediția II, în perioada 25-27 mai 2016, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- Special Award-SIB-- Salonul Internațional de Invenții și Inovații ,,TRAIAN VUIA" Timișoara ediția II, în perioada

25-27 mai 2016, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA

- GOLD MEDAL, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- ARCA AWARD - Union of Croation Innovators, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- HONORABLE MENTION - China Delegation of Invention and Innovation, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA
- CERTIFICATE AWARD - Turkish Patent Institute, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch), ) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.

- GOLD MEDAL —INTERNATIONAL FAIR OF INVENTION AND PRACTICAL IDEAS SIR, IAȘI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), September 115-18, 2016 (http://www.inventica.org.ro/inventica2016/salon.html) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- HEALTH AWARD INTERNATIONAL FAIR OF INVENTION AND PRACTICAL IDEAS SIR, IAȘI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), September 115-18, 2016 (http://www.inventica.org.ro/inventica2016/salon.html) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL THE HAMANGIA THINKER—INTERNATIONAL SALON -INVENTICA , IAȘI – ROMANIA ( Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), June 29- July 1 2016 (http://www.inventica.org.ro/inventica2016/salon.html) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuţ CĂLIN, Catalin Gheorghe AMZA
- GOLD MEDAL of 65th Edition Brussels INNOVA 2016 for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateş Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoiţă Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
- TROPHY and Diploma "Outstanding Innovation Award" offered by Bioactive Resources for Innovative Clinical Application Excellent Center, Thailand, 19th of November 2016, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateş Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoiţă Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
- MEDAL and Diploma on behalf of the inventors and co-workers of Industrial Chemistry Research Institute of Warsaw, Poland, Brussels November 2016, awarded by professor Regina Jeziorska, Manager of Polymer Technology and Processing Department for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateş Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoiţă Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
- MEDAL and Diploma "Outstanding Innovation Award" offered by Bioactive Resources for Innovative Clinical Application Excellent Center, Thailand, 19th of November 2016, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateş Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoiţă Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).

## ANNEXES

- List of publications