



Curriculum Vitae

Bogdan ONOFREI, MBE¹
Medical Bio-Engineer
Master of Biomedical Engineering
ALP Code/No.: 41/1046

Personal information

**First name SURNAME,
PROFESSION and TITLE**

Bogdan ONOFREI, MBE¹

Address 8 Arheologilor, 6th district, 060915 Bucharest, Romania
 Telephone +40 723 308 209
 E-mail bogdanonofreimbe@gmail.com
 Website <http://bogdanonofreimbe.wordpress.com>
 Nationality Romanian
 Date and place of birth April 6th1977, Botosani, Romania
 Marital Status | Children Married | Victor and Serban
 Pets Anuca and Miruna

**Desired involvement | Specialty
Occupational field | Domain**

**Cardio Vascular Imaging Trainer or Application Specialist | Ultra Sound
Medical Bio Engineer | Medical Equipment and Techniques**

Last degree | Subject Master of Biomedical Engineering | Monitoring Systems and Telemedicine

Professional experience

Dates April 2014 till Today
 Occupation or position held | Schedule Medical Bio Engineer | Part-time
 Medical Equipment
 Main activities and responsibilities Train and support existing medical personnel in the clinical setting. Build trusting relationships with medical professionals. Assist with clinical advice and training for private clinics and hospitals. Coordinate diary in disjunction with full-time activities. Main applications: cardiology (electrophysiology, monitoring), point of care (neonatal ventilating, vital signs monitoring)
 Most relevant achievements National clinical certification of bio engineering as medical profession
 Member of the Romanian Society of Medical Bio Engineering
 Developing and continuously updating two complementary professional websites
 Authorized medical stamp bio engineer to train medical imaging professionals
 Name and address of employer Bogdan ONOFREI, MBE (Authorized Licence of Practice as Medical Bio Engineer issued by the Romanian Ministry of Health, April 2014, ALP Code/No 41/1046)
 4 Tarnii, Joita Giurgiu, Romania, <http://bogdanonofreimbe.blogspot.com>
 Type of business or sector Authorized Medical Training of Professionals

Dates April 2009 till Today
 Occupation or position held | Schedule Senior Application Specialist | Full-time
 Multimodality Imaging
 Main activities and responsibilities Train and support existing medical personnel in the clinical setting. Demonstrate the equipment to new and potential customers. Assist with clinical advice and training for sales colleagues. Build trusting relationships with customers and colleagues. Support tradeshow and other marketing activities. Coordinate diary in conjunction with sales colleagues. Main applications: ultrasound (cardiovascular, women healthcare, general imaging), multimodality (tele-) imaging, X-ray osteodensitometry, dedicated post-processing software (ultrasound, mammography)

Most relevant achievements	The 1 st National 4D TOE MitraClip Interventional Training at ARES Excellence Centre Bucharest The 1 st Neuro SWE and CEUS Intraoperative Demo at the Regional Neurosurgery Institute Cluj The 1 st Regional Paediatric 4D TOE Interventional Demos at M. Curie Bucharest and Heart Inst. Cluj The 1 st National Paediatric SWE Fibroscan Cut-Off Study at the Regional Hospital Targu Mures The 1 st Regional Cardiac CEUS for Myocardial Perfusion Demo at the Heart Institute Cluj Paediatric CEUS Demos in Louis Turcanu Hospital Timisoara and Marie Curie Hospital Bucharest ICE Angio Electrophysiology Interventional Trainings at the Colentina Hospital Bucharest HyCoSy CEUS IVF monitoring Demos at Medlife Hospital Brasov and Polissano Hospital Sibiu
Name and address of employer	MEDIST Imaging Ltd. (GE Healthcare, Cardiac Science, SLE, ImaCor, ZOLL) 34A Ion Urdareanu, 5 th District, Bucharest, Romania, http://www.medist.ro
Type of business or sector	Medical (Imaging) Equipment Distribution
Dates	April 2007 till March 2009
Occupation or position held Schedule	Product Specialist Full-time
Main activities and responsibilities	Product ordering and installation, user trainings, and techno-medical equipment servicing. Demonstrate the equipment to new and potential customers in techno-medical laboratories. Main products: microscopy (inverted, fluorescence, digital), centrifuges (refrigerated, high-speed), sterilization (autoclaves, incubators), anatomopathological (microtomes, plates), microbiology (safety burners), cabinets (chemical, biohazard, laminar), ELISA automatic lines
Most relevant achievements	Attract manufacturers in the portfolio, and customers in the database to the new business Annually visits to MEDICA Dusseldorf for manufacturer ordering negotiations Introducing new manufacturers on the market: OPTIKA, HistoLine, Tharmac, Eurospital Doctoral studies in telepathology on company's specific equipment and network
Name and address of employer	TECHMED Instruments Ltd. (OPTIKA, HistoLine, Tharmac, BIOTOOL, Eurospital, ESCO) 11 Iovita, 5 th District, Bucharest, Romania, http://www.techmed.ro
Type of business or sector	Techno-Medical Equipment Distribution
Dates	November 2004 till March 2007
Occupation or position held Schedule	Product Manager Full-time
Main activities and responsibilities	Product installation, user trainings for laboratory equipment, supplier product communication. Train and support existing medical personnel in the medical laboratory. Support tradeshows and other marketing activities. Main products: microscopy (inverted, fluorescence, digital), centrifuges (refrigerated, high-speed), sterilization (autoclaves, incubators), incineration (waste, animal), cabinets (chemical, biohazard, laminar), anatomopathological (microtomes, plates), microbiology (media preparators, pumps and plate handlers), waste management (plasma burners, autoclaves)
Most relevant achievements	Introducing new manufacturers on national market, and continuing collaboration as new supplier
Name and address of employer	AMS 2000 Ltd. (BIOTOOL, Tuttnauer, MERI, Hettich, ESCO, HUND Wetzlar, MPW) 37A Ion Tuculescu, 3 rd District, Bucharest, Romania, http://www.ams.ro
Type of business or sector	Laboratory Equipment Distribution
Dates	February 2004 till June 2004
Occupation or position held Schedule	Medical Representative Part-time
Main activities and responsibilities	Medical crediting and leasing for various manufacturers. Laptop presentations of different medical equipment for medical professionals and decision makers. File follow-up for both the creditors, and the customers. Main applications: cardiology, surgery, radiology, nuclear medicine
Most relevant achievements	Consolidating relationships with the most important manufacturers worldwide
Name and address of employer	MEDICARE Group Ltd. (GE Healthcare, Siemens, Philips, STORZ, Aesculap) 30 Valea Merilor, 1 st District, Bucharest, Romania, http://www.medicare.ro
Type of business or sector	Medical Equipment Crediting and Leasing

Dates	September 2002 till January 2004
Occupation or position held schedule	Biomedical Engineer Part-time
Main activities and responsibilities	Product installation, user trainings and dental equipment basic servicing. Private dental clinics support in equipment maintenance. Main products: dental instruments, treatment units, imaging and diagnostic equipment, dental laboratory devices
Most relevant achievements	Initialization of the new medical air compressors for the regional university clinic Regional maintenance of all dental units in the database
Name and address of employer	DENTAL Partners Ltd. (KAVO Dental GmbH, MAHLE Group) 2 Visinilor, 2 nd District, Bucharest, Romania, http://www.dpgrup.ro
Type of business or sector	Dental Equipment Distribution
Dates	February 2002 till August 2002
Occupation or position held Schedule	Biomedical Engineer Part-time
Main activities and responsibilities	Product installation, user trainings and medical equipment basic servicing. Private clinics support in dialysis, ophthalmology and surgery equipment maintenance. Main products: dialysis equipment, biomicroscopes, laparoscopy lines
Most relevant achievements	Interventional ophthalmology demo at the Regional Railway Hospital Iasi Installation of dialysis equipment and purification station at the Regional Hospital Moinești Laparoscopic line installation and training at the Regional Hospital Pascani
Name and address of employer	ROMGER General Trade and Consulting Ltd. (B BRAUN Medical, Aesculap Instruments) 25 Calea Victoriei, 3 rd District, Bucharest, Romania, http://www.romger.ro
Type of business or sector	Medical Equipment Distribution
Dates	February 2002 till October 2004
Occupation or position held Schedule	Medical Bio Engineer Full-time
Main activities and responsibilities	Technical support for dental equipment, supplier service teams, and dental data communication. Research project management in conjunction with department colleagues. Main products: dental instruments, treatment units, imaging and diagnostic equipment, dental laboratory devices, local area network for dental imaging transfer
Most relevant achievements	Doctoral studies in tele orthopantomography on departmental specific equipment and network Professional interface between doctors and technicians regarding equipment usage Assisting doctors in research activities, including academic presentations Providing biomedical support to doctors working in the same team at other medical facilities Supporting Dean's presentation at the Romanian Academy of Medical Science Collaborating with dental technicians for the development of new devices
Name and address of employer	Gr.T.Popa University of Medicine and Pharmacy, Faculty of Medical Dentistry, Dental Simulation 16 Universitatii, Iasi, Romania, http://www.umfiasi.ro
Type of business or sector	Medical University Studies
Dates	October 2001 till January 2002
Occupation or position held Schedule	Biomedical Engineer Full-time
Main activities and responsibilities	Product installation, user trainings and medical equipment basic servicing. Customer support in functional exploratory and laboratory equipment maintenance. Main products: ECG, EEG, ELISA automatic lines, centrifuges
Most relevant achievements	My 1 st lab equipment installation and training at the Cuza Voda Hospital Iasi: ELISA automatic line My 1 st electrophysiology equipment installation and training in Bacau and Vaslui Hospitals: EEG
Name and address of employer	MEDICAL Invest Ltd. (EB Neuro SpA, Asystech, K-lab) 66 Calea Nationala, Botosani, Romania, http://www.medicalinvest.ro
Type of business or sector	Medical Equipment Distribution

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Educational background²

Dates	October 2007 till September 2009
Title of qualification awarded occupational skills covered	Doctorand Medical Telecommunications
Main subject	Medical Imaging System with Applications in Telepathology
Results	Departmental presentation of the initial doctoral study " <i>Image Acquisition, Storage and Transmission in LED Fluorescence Microscopy: role in mycosis eradication through tele pathological practices</i> ". HW consists of the N-400 LD fluorescence trinocular microscope that helps the local operator to generate the medical image, the A630 CCD camera that captures 80% of the fluorescent light, the AMD AthlonXP PC that processes the information, and the DI-524 Router that wirelessly transmits the processed data to the nx9420 NB for remote interpretation by medical professionals through the Vision Pro 3.4 SW
Most relevant achievements	Certificate of Proficiency in English, Cambridge ESOL, CPE Level 3, C2, August 2009
Conclusion	Transmitted image quality / Acquired resolution = insignificant differences in telepathology
Name and type of organisation providing education and training	Bucharest Polytechnics University, Faculty of Electronics, Telecommunication and Information Technology, 313 Splaiul Independentei, Bucharest, Romania, http://www.upb.ro
Dates	October 2002 till September 2004
Title of qualification awarded occupational skills covered	Doctorand Medical Telecommunications
Main subject	Medical Imaging System with Applications in Teleradiology
Results	International publishing of the initial doctoral study " <i>Lossless Compression of Grayscale Medical Images. Impact on Rural Applications of Teleradiology</i> ". HW consists of the analogue Orthopus TM and Ortho digital radiology units that capture the orthopantomography, the 5400-series scanner that converts the lossless analogue into digital, and the server and 15-client LAN architecture that transmits the lossy digital images after they have been compressed by the MSdev SW
Most relevant achievements	Letter of Recommendation with Declaration of Anticipated Synergy, UMF Iasi, August 2003 Attendance Diploma, Gr.T.Popa University of Medicine and Pharmacy Days, Iasi, November 2003 TOEFL CBT Certificate, Bucharest, October 2003 Certificate of Attendance, MEDINF International Conference, 10 EMC, Craiova, October 2003
Conclusion	Lossless vs. lossy / resolution vs. speed = insignificant differences in tele orthopantomography
Name and type of organisation providing education and training	Gh.Asachi Technical University, Faculty of Electronics and Telecommunication 67 Dimitrie Mangeron, Iasi, Romania, http://www.tuiasi.ro
Dates	October 2001 till September 2002
Title of qualification awarded occupational skills covered	Master of Biomedical Engineering ¹ Monitoring Systems and Telemedicine
Main subject	Digital Cardiac Telemonitoring System
Results	Title dissertation thesis and presentation of the " <i>Biosignal Telemonitoring System</i> " project: HW consists of the analogue cardiac telemonitoring system developed as the bachelor thesis project described below, plus A/D and D/A conversion modules individually developed using the successive approximation technique for transmitting ECGs through digital communication network SW
Most relevant achievements	English Language Certificate from Industry and Commerce Chamber, Iasi, October 2001 Honorary Degree by the Dean of the 1 st Generation of Medical Bio Engineers, October 2001
Conclusion	The individually developed system works within normal cardiac digital telemonitoring parameters
Name and type of organisation providing education and training	Gr.T.Popa University of Medicine and Pharmacy, Faculty of Biomedical Engineering 16 Universitatii, Iasi, Romania, http://www.umfiasi.ro

Dates	October 1995 till September 2001
Title of qualification awarded occupational skills covered	Licensed Medical Bio Engineer ¹ Medical Equipment & Techniques
Main subject	Analogue Cardiac Telemonitoring System
Results	Title dissertation thesis and presentation of the project " <i>Biosignal Telecommunication System with Applications in Telemedicine</i> ": HW consists of the LM108 and TL081C ECG amplifier that generates the ECG signal, the MMC4046 frequency modulator that PLL converts signal amplitudes into audio frequencies to be transmitted, the CITBA790 audio amplifier, the POTS line, the CIBM387 audio preamplifier, the MMC4046 frequency demodulator that PLL converts received audio frequencies back into signal amplitudes again, and the oscilloscope or ECG monitoring SW
Most relevant achievements	2 nd Prize of the 3 rd Medical Bio Engineering Students Symposium Committee, Iasi, May 2000 Special award of the 1 st Medical Bio Engineering Students Symposium Committee, Iasi, May 1998 English Language Certificate of Studies, University of Medicine and Pharmacy, Iasi, November 1998 Attendance Diploma, the 3 rd Medical Bio Engineering Students Symposium, Iasi, May 2000 Attendance Diploma, the 3 rd Medical Bio Engineering Students Symposium, Iasi, May 2000
Conclusion	The individually developed system works within normal cardiac analogue telemonitoring parameters
Name and type of organisation providing education and training	Gr.T.Popa University of Medicine and Pharmacy, Faculty of Biomedical Engineering 16 Universitatii, Iasi, Romania, http://www.umfiasi.ro

Dates	October 1991 till September 1995
Title of qualification awarded occupational skills covered	Bachelor of Mathematics and Physics Theoretical Sciences
Main subject	Mathematics and Physics
Results	Local oral and written exams: good command of both theoretical notions, and technical projects
Most relevant achievements	Multiple disciplinary olympics participation
Conclusion	Ready for both theoretical, and technical research activities
Name and type of organisation providing education and training	Mihai Eminescu Theoretical College, 7 Octav Onicescu, Botosani, Romania, http://www.lme.ro

Professional skills, trainings and competences²

Master language(s) Cambridge European assessment	English, proficient CPE Level 3 C2
Social	Team spirit (15-year team working experience, including research groups in the last university years) Good ability to adapt to multicultural environments (trainings abroad, international suppliers' support) Good communication skills (customer relations, sales course)
Technical	Medical equipment manipulation, both installing and basic service (trainings, work experience). Application skills in medical imaging equipment (advanced application courses, live scanning)
Computer	Specialized in medical imaging post-processing software usage (4Dview™, Vscan Gateway™, EchoPAC PC™, ViewPoint™, TomTec Arena™, RScribe™, HScribe™, XScribe™, enCORE™, Multimodality Dicom Viewers) Good command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™ and Outlook™)
Professional Authorizations	Authorized Licence of Practice as Medical Bio Engineer, Romanian Ministry of Health, April 2014
Manufacturer Trainings	ViewPoint™ Cardio Vascular Workshop, Global US IT Academy GE, Munich, November 2018 Certificate of Attendance, Distributor Partner Meeting and E10 Deep Training, GE, Wien, April 2018 Distributor Partner Meeting and Product Training Certificate, GE, Budapest, April 2017 Certificate of Attendance, Women Health Application Training, GE, Rome, September 2017

Distributor Partner Meeting and Product Training Certificate, GE, Thessaloniki, October 2016
 Distributor Partner Meeting and Product Training Certificate, GE, Budapest, April 2016
 Education Program Certificate in WHUS, GE, Budapest, April 2016
 Application Course Certificate in GIUS, GE, Budapest, February 2016
 Certificate of Attendance, Vivid™ S60/S70/E90/E95 Training, GE, Thessaloniki, June 2015
 Certificate of Attendance, Logiq™ S7 Training, GE, Budapest, September 2012
 Certificate of Competence, Advanced Application and Product Course, GE, Athens, Sep 2010
 Certificate of Training in Cardiac Diagnostic Monitoring, CARDIAC Science, Budapest, October 2009
 Certificate of Attendance in 'Sales – an attitude', CODECS, Bucharest, April-May 2006
 Certificate of Technical and Sales Training, BIOTOOL Swiss AG, Amriswil, February 2006

English Language Certificates

Certificate of Proficiency in English, Cambridge ESOL, August 2009
 TOEFL CBT Certificate, Bucharest, October 2003
 English Language Certificate from Industry and Commerce Chamber, Iasi, October 2001
 English Language Certificate of Studies, University of Medicine and Pharmacy, Iasi, November 1998

University Achievements

Attendance Diploma, Gr.T.Popa University of Medicine and Pharmacy Days, Iasi, November 2003
 Certificate of Attendance, MEDINF International Conference, 10 EMC, Craiova, October 2003
 Letter of Recommendation with Declaration of Anticipated Synergy, UMF Iasi, August 2003
 Attendance Diploma, the 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000 for *The Implementation of QRS Complex Detection Algorithms Using Matlab*
 Attendance Diploma, the 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000 for *Functional Exploratory Examination of Pressopuncture Effects through ECG, Pulse, Oscilo*
 Honorary Degree by the Dean of the 1st Generation of Medical Bio Engineers, October 2001
 Certificate of the 1st Medical Bio Engineering Students Association Symposium, Iasi, May 1998

Prizes and Awards

2nd Prize of the 3rd Medical Bio Engineering Students Symposium Committee, Iasi, May 2000
 Special award of the 1st Medical Bio Engineering Students Symposium Committee, Iasi, May 1998

Professional Associations

Member of the Romanian Society of Medical Bio Engineering
 Vivid™ Club member of cardiovascular ultrasound professionals
 Logiq™ Club member of general imaging ultrasound professionals
 Voluson™ Club member of women healthcare ultrasound professionals
 Member of the American Telemedicine Association
 Founding member of the Medical Bio Engineering Students Association

Voluntary Missions

The 1st International Celibidache Festival, May – July 2012, promotion activities: marketing materials distribution, organizing support for the conducting masterclass, musicians accommodating

Research Projects and Articles

Internationally Published Doctoral Research

Lossless Compression of Grayscale Medical Images. Impact on Rural Applications of Teleradiology - sole contribution, 4 pages, English, published (MEDINF 2003, The 1st International Conference on Medical Informatics and Engineering, Craiova, Romania, October 2003) – Craiova Medical Publishing

Nationally Published Project Reports

Experimental System for the Analogue to Digital Conversion of Biosignals and Digital Information Storage – research report, grant manager, joint contribution, 50 pages, Romanian, published (ANSTI - National Agency for Science, Technology and Innovation - Publishing, October 2000)

Locally Published Articles

Biosignal Intranet Teletransmission Method - joint contribution, 5 pages, Romanian, published (The 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000) – Gr. T. Popa University of Medicine and Pharmacy Publishing
The Implementation of QRS Complex Detection Algorithms Using Matlab - sole contribution, 3 pages, Romanian, published (The 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000) - Gr. T. Popa University Publishing
Functional Exploratory Examination of Presopuncture Effects through ECG, Pulse and Oscillometry – joint contribution, 4 pages, Romanian, published (The 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000) - Gr. T. Popa University Publishing



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Unpublished Doctoral Research	<p><i>Using Biofeedback Techniques in the Treatment of Anal Incontinence</i> - joint contribution, 5 pages, Romanian, published (The 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000) – Gr. T. Popa University of Medicine and Pharmacy Publishing</p> <p><i>Autologous Transfusion</i> – joint contribution, 4 pages, Romanian, published (The 3rd Medical Bio Engineering Students Symposium, Iasi, Romania, May 2000) – Gr. T. Popa University Publishing</p> <p><i>Image Acquisition, Storage and transmission in LED Fluorescence Microscopy: role in mycosis eradication through tele pathological practices</i> - sole contribution, 9 pages, Romanian, scientific paper, doctoral studies (Medical Informatics Department, Faculty of Electronics, Telecommunications and Information Technology, Bucharest Polytechnics University), January 2008</p>
Unpublished Articles	<p><i>Telemed: Biosignal Tele transmission Program</i> – joint contribution, Romanian (The 2nd Medical Bio Engineering Students Symposium, Iasi, Romania, May 1999)</p> <p><i>Analogue to Digital Conversion of Biosignals and Digital Information Storage</i> – joint contribution, Romanian (MEDINF, Iasi, Romania, November 2000)</p> <p><i>Contribution of Biomedical Engineering Informatics to the Development of Telemedicine</i> – joint contribution, teleconferenced demo roundtable, Romanian (MEDINF, Iasi, Romania, November 2000)</p> <p><i>Personal Management Plan for Telemedical Product Launching on the Medical Service Market</i> - sole contribution, 9 pages, Romanian, Faculty of Biomedical Engineering, Management Dept., 1999</p> <p><i>Telemedicine: a Student's Point of View</i> – sole contribution, Romanian (The Gr. T. Popa University of Medicine and Pharmacy Days, Medical Bio Engineering Session, Iasi, Romania, November 1999)</p> <p><i>Contribution of Telemedicine to the Development of Medical Services</i> – joint contribution, Romanian (The 1st Medical Bio Engineering Students Symposium, Iasi, Romania, May 1998)</p> <p><i>Contribution of Telemedicine to the Development of Medical Services</i> – joint contribution, English (The Balkan-Romanian Days of Gastroenterology, Iasi, Romania, April 1998)</p>
Title Thesis Dissertation	<p><i>Digital Cardiac Telemonitoring System</i> - sole contribution, 42 pages, Romanian, MBE dissertation thesis (Faculty of Biomedical Engineering, Iasi, September 2002)</p> <p><i>Analogue Cardiac Telemonitoring System</i> - sole contribution, 97 pages, Romanian, MBE dissertation thesis (Faculty of Biomedical Engineering, Iasi, September 2001)</p>
Additional Information	
Driving licence	European Driving Licence, B Category, August 1996, hundreds of thousands of ultra sound miles
(Extra-) Professional Activities	<p>Sound phenomenology: generating sounds, propagating media, and receiving entities</p> <p>Live music experiencing: live concert or recital, orchestral rehearsals, and music festivals</p> <p>Ultra sound conducting: performing dedicated application trainings</p> <p>Live (auto-) scanning: demonstrating ultra sound acoustics and imaging</p>
Philosophy	<p>Live Music Ultra Sound</p> <p>Multiverse has always been vibrating, yet only sometimes musical We are all part of cosmic symphonies Thus, one is here because one is not here</p> <p>Music comes from the heart, addresses the spirit, and the other way around In music, as in every heartbeat or in life itself, the end must be in the beginning, as much as the beginning must be in the end The heart could hear the inaudible, just the same as the spirit could see the invisible</p> <p>(Ultra-) sounds are neither music nor imaging (Ultra-) sounds could become music whenever they would live in the eternal now (Ultra-) sounds could also become imaging if now becomes live Music and imaging transcend worlds both ways: music could generate (in-) visible imaging, while music is sometimes made up of inaudible (ultra-) sounds</p>