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|  |  | Alexandru Octavian Pavelescu | | | | | | | | | | |
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| Europass  Curriculum Vitae | |  | | | | | | | | | | |
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| Personal information | |  | | | | | | | | | | |
| First name(s) / Surname(s) | | Alexandru Octavian PAVELESCU | | | | | | | | | | |
| Address | | Bucharest , Romania | | | | | | | | | | |
| Telephone(s) | | Work: +40-(21)-504.23.87 (Int. 5021) | | | | | Mobile | | - | | | |
| E-mail(s) | | [alexandru.pavelescu@nipne.ro](mailto:alexandru.pavelescu@nipne.ro)  [alexandru.pavelescu@gmail.com](mailto:alexandru.pavelescu@gmail.com) | | | | | | | | | | |
| Nationality | | Romanian | | | | | | | | | | |
| Date of birth | | 1979 | | | | | | | | | | |
| Gender | | Male | | | | | | | | | | |
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|  | |  | | | | | | | | | | |
| Work experience | |  | | | | | | | | | | |
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| Dates  Main activities and responsibilities  Name and address of employer  Type of business or sector  Dates | | 15 May 2017 – 31 December 2017  **Scientific Researcher III at AOS-R**  Research & Development for:   * Spectrometry data analysis; * Radionuclides transport in concrete; * Mathematical modelling; * Intercomparison of measured and evaluated data.   Academy of Romanian Scientist (Academia Oamenilor de Stiinta din Romania – AOSR)  Blv. Spl. Independentei, No. 54, Bucharest, Sector 5, 030167, Romania, Tel: +40 (021) 314. 74. 91  Science Academia  1 November 2009 → Present | | | | | | | | | | |
| Main activities and responsibilities | | **Technology Development Engineer II, IFIN-HH Reactor Decommissioning Department (DDR):**  - Involved in VVR-S nuclear research reactor decommissioning;  - Assessment of radioactive wastes activities, quantities and costs;  - Evaluate pathways of exposure;  - Support for technical project management;  - Compliance with nuclear legislation and regulatory norms imposed by national regulatory body. | | | | | | | | | | |
| Name and address of employer | | National Institute of Physics and Nuclear Engineering “Horia Hulubei” (IFIN-HH)  407, Atomistilor Street, 077125 Magurele (Romania) | | | | | | | | | | |
| Type of business or sector | | Research and Development | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 1 June 2007 - 30 September 2007 | | | | | | | | | | |
| Occupation or position held | | **Research fellowship:** | | | | | | | | | | |
| Main activities and responsibilities | | - Using computational tools and data libraries (setting up, production and application) for potential hazards factors;  - Evaluate the radioactive inventories and dose rates for container-drums disposal;  - Applications for Low Level Waste and High Level Waste containers. | | | | | | | | | | |
| Name and address of employer | | Italian National Agency for Technology New Energy and the Sustainable Economic Development (ENEA), FIS-Met Laboratory, Bologna  76, Lungotevere Thaon di Revel, 00196 Rome (Italy) | | | | | | | | | | |
| Type of business or sector | | Research and Development | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 10 January 2006 - 3 July 2006 | | | | | | | | | | |
| Occupation or position held | | **Research Fellowship:** | | | | | | | | | | |
| Main activities and responsibilities | | - Radiation source spectra calculations;  - Support of safety assessment for radioactive contaminant transport;  - Exposure dose rate evaluation. | | | | | | | | | | |
| Name and address of employer | | Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)  76, Lungotevere Thaon di Revel, 00196 Rome (Italy) | | | | | | | | | | |
| Type of business or sector | | Research and Development | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 1 November 2003 - 22 May 2009 | | | | | | | | | | |
| Occupation or position held | | **Doctoral fellowship** | | | | | | | | | | |
| Main activities and responsibilities | | - Postgraduate research in radioactive waste management, characterization and final disposal of nuclear spent fuel;  - Teaching assistant in the following courses: "Dosimetry", “Theory of Nuclear Reactors” and "Nuclear Processes". | | | | | | | | | | |
| Name and address of employer | | University POLITEHNICA of Bucharest (UPB)  313, Splaiul Independentei, 060042 Bucharest (Romania) | | | | | | | | | | |
| Type of business or sector | | Higher Education | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| **Education and training**  Dates  Title of qualification awarded  Principal subjects / occupational skills covered  Name and type of organisation providing education and training  Dates  Title of qualification awarded  Principal subjects / occupational skills covered  Name and type of organisation providing education and training  Dates  Title of qualification awarded  Principal subjects / occupational skills covered  Name and type of organisation providing education and training  Dates  Title of qualification awarded  Principal subjects / occupational skills covered  Name and type of organisation providing education and training  Dates  Title of qualification awarded  Principal subjects / occupational skills covered  Name and type of organisation providing education and training | | 21-26 September 2015  Participation Diploma  **1st ELI–NP Summer School: Perspectives in Physics with High–Power Lasers and Gamma Beams** (<http://www.eli-np.ro/2015-summer-school/>)  Extreme-Light Infrastructure – Nuclear Physics, Bucharest-Magurele, Romania, 30 Reactorului Street  PO Box MG-6, Bucharest- Magurele, RO – 077125, Tel. 021 404 5099, [secretar@eli-np.ro](mailto:secretar@eli-np.ro),  2-3 July 2015  Participation Diploma  **Course of Communications and Public Relations for Researches**  Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH)  Foundation for Democracy, Culture and Liberty, Bucharest Romania  Magurele High Tech Cluster (MHTC) <http://www.mhtc.ro/en/>  22-26 June 2015  Certificate of Attending  **International Workshop on the Implementation of Decommissioning Schemes under the Research Reactor Demonstration Project (R2D2P)**  International Atomic Energy Agency (IAEA)  Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH), Bucharest-Magurele, Romania  19-23 May 2014  Certificate of Participation  **IAEA RER 9120 Regional Workshop on Decommissioning of Soviet Type Research Reactors WSDECOM 2014, ”Supporting Decommissioning Implementation for Facilities Using Radioactive Material”**  International Atomic Energy Agency, Technical Cooperation Department,  Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH), Bucharest-Magurele, Romania  1 October 2011 – 11 November 2011  Participation diploma  **International Course on Nuclear Spent Fuel Performance**  IAEA Regional training course on nuclear fuel management and licensing:  "Fuel performance, safety assessment and licensing in the ex-core nuclear cycle”  International Atomic Energy Agency (IAEA) and National Commission for Nuclear Activities Control (CNCAN) under the IAEA TC Project RER 3008/004, Bucharest, Romania | | | | | | | | | | |
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| Dates | | 4 July – 8 July 2011 | | | | | | | | | | |
| Title of qualification awarded | | Participation diploma  **International Workshop “Review of IFIN-HH Research Reactor Decommissioning Plan”** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | IAEA International “Research Reactor Decommissioning Demonstration Project” (R²D²P), Workshop No.10 | | | | | | | | | | |
| Name and type of organization providing education and training | | International Atomic Energy Agency (IAEA) and IFIN-HH in Magurele-Bucharest, Romania | | | | | | | | | | |
| Dates | | 26 May 2010 – 30 May 2010 | | | | | | | | | | |
| Title of qualification awarded | | Participation diploma  **International Training Course for Radiation Emergency Preparedness and Response** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | IAEA First Response to a Radiological Emergency, | | | | | | | | | | |
| Name and type of organisation providing education and training | | International Atomic Energy Agency (IAEA) and National Commission for Nuclear Activities Control (CNCAN) under the EPR-First Responders/T 2009, Bucharest, Romania | | | | | | | | | | |
| Dates | | 12 April 2010 – 16 April 2010 | | | | | | | | | | |
| Title of qualification awarded | | **National Workshop on Safety Culture Oversight** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | Practical exercises on safety culture oversight, safety culture attributes, opportunities and methods for gathering data; process for analyzing and reporting, including establishment of criteria and formulation of recommendations. | | | | | | | | | | |
| Name and type of organisation providing education and training | | International Atomic Energy Agency (IAEA), National Commission for Nuclear Activities Control (CNCAN) and Norwegian Radiation Protection Authority(NRPA) under the IAEA Regional Excellence Programme on Safe Nuclear Energy and Norwegian Cooperation Programme with Romania | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 1 November 2003 - 22 May 2009 | | | | | | | | | | |
| Title of qualification awarded | | **Doctor in Engineering Sciences (14 August 2009)** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | Doctoral thesis title:  "Contributions to the Final Disposal Study of the High Level Wastes Produced by Cernavoda Nuclear Power Plant Located in Granitic Rock" | | | | | | | | | | |
| Name and type of organisation providing education and training | | University “Politehnica” of Bucharest, Faculty of Power Engineering (Technical University)  313, Splaiul Independentei, 060042 Bucharest (Romania) | | | | | | | | | | |
| Level in national or international classification | | 3rd place within national universities classification in 2007 ("Ad Astra" Research Association) | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 17 November 2006 - 21 November 2006 | | | | | | | | | | |
| Title of qualification awarded | | Graduation Diploma  **International Course on Radioactive Waste Management** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | Training and specialization course, within the framework of EURATOM FP-6, organized by ESDRED, (Engineering Studies and Demonstrations in Repository Design) and ENEN (European Nuclear Education Network) | | | | | | | | | | |
| Name and type of organisation providing education and training | | ESDRED, ENEN & UPB (Training and specialization course)  313, Splaiul Independentei, 060042 Bucharest (Romania) | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 1 October 2003 - 10 July 2004 | | | | | | | | | | |
| Title of qualification awarded | | **Master in Radioprotection and Nuclear Safety** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | - Specialization in radioprotection, dosimetry, nuclear processes and nuclear reactor theory;  - Master thesis title: "Source Term Model for Spent Fuel from NPP Cernavoda Disposed in Granite rock" | | | | | | | | | | |
| Name and type of organisation providing education and training | | University “Politehnica” of Bucharest (Technical University)  313, Splaiul Independentei, 060042 Bucharest (Romania) | | | | | | | | | | |
|  | |  | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Dates | | 1 October 1998 - 20 June 2003 | | | | | | | | | | |
| Title of qualification awarded | | **Engineer Diploma** | | | | | | | | | | |
| Principal subjects / occupational skills covered | | - Major specialization: Information technology applied to industry processes  - Minor specialization: Engineering of nuclear power plants. | | | | | | | | | | |
| Name and type of organisation providing education and training | | University “Politehnica” of Bucharest (Technical University)  313, Splaiul Independentei, 060042 Bucharest (Romania) | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Personal skills and competences | |  | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Mother tongue(s) | | Romanian | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Other language(s) | |  | | | | | | | | | | |
| Self-assessment | |  | Understanding | | | | Speaking | | | | Writing | |
| European level (\*) | |  | Listening | | Reading | | Spoken interaction | | Spoken production | |  | |
| English | |  | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C1 | Proficient user |
| French | |  | B2 | Independent user | B2 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user |
| Italian | |  | C2 | Proficient user | C2 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |
| Spanish | |  | C1 | Proficient user | C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user |
|  | | (\*) [Common European Framework of Reference (CEF) level](file:///H:\d:\ootmpoffline2\ECV-41816.odt\%3f%3f%3fro_RO\preview\linkToGridTable%3f%3f%3f\en) | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Social skills and competences | | - Very good communication skills gained through my experience as teaching assistant;  - Very good team spirit suited for teamwork;  - Very good ability to adapt to multicultural environments, gained through my work experience abroad. | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Organisational skills and competences | | - Experience in technical project management related to the decommissioning activities of the VVR-S nuclear research reactor.  - Organizing staff of the AIEA International Workshop Research Reactor Decommissioning Demonstration Project (R²D²P) organized by IFIN-H, Magurele-Bucharest, Romania, 2011  - Participation at several seminars and exchange forums of IGD-TP technology platform (Implementing Geological Disposal Technology Platform for Radioactive Wastes.  - Organizing staff of the International Symposium on Nuclear Energy (SIEN) 2007, Bucharest, Romania; | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Technical skills and competences | | - Good command of operating various dosimetry and spectroscopy equipment;  - Good command of operating non-electrical measurements equipment such as: flow meters, thermal cameras, temperature probes. | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Computer skills and competences | | - Very good knowledge of Microsoft Office tools (Word, Excel, Power Point, Access, Frontpage);  - Very good knowledge of ORIGEN (modelling of reactor fuel burnup and decay);  - Very good knowledge of MICROSHIELD (modelling of radioactive sources and shielding);  - Very good knowledge of AMBER (modelling of isotopes transport);  - Very good knowledge of RESRAD (modelling of nuclear accidents and contamination);  - Good knowledge of Mathcad (mathematical calculations);  - Good knowledge of MATLAB (mathematical calculations and simulations);  - Good knowledge of AUTOCAD;  - Good knowledge of Microsoft Visual C++ , Visual Basic for Applications and Project Manager;  - Basic knowledge of GEANT4 and FLUKA computer code (Monte-Carlo simulation and modelling of particles transport in various environments). | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Artistic skills and competences | | Very good literary writing style | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Other skills and competences | | - Member of Romanian Association for Nuclear Energy (AREN) in Young Generation Department form  since 2003;  - Romanian Physics Society since 2013. | | | | | | | | | | |
|  | |  | | | | | | | | | | |
| Marital status | | Not married | | | | | | | | | | |
| Hobbies | | - Practiced sports: running, ski, mountain biking, swimming, tennis;  - Science-fiction literature, salsa dancing | | | | | | | | | | |
| Driving licence(s) | | B | | | | | | | | | | |
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|  | | **Dr. Alexandru Octavian PAVELESCU** | | | | | | | | | | |
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