



## Curriculum vitae Europass

### Personal Information

Name / Surname **Jderu Alexandru-Alin**

Address [REDACTED]

Phone + [REDACTED]

Fax

E-mail [REDACTED]

Nationality Romanian

Birth Date [REDACTED]

Gender Male

### Desired Employment / Occupational Field

### Professional Experience

Period December 2019 – present

Occupation or position held Senior programmer

Main activities and responsibilities Responsible for Hardware and Software implementation and integration in IoT R&D projects.

Name and address of employer eSolutions, Bucharest, Romania

Type of business or sector IT

Period December 2013 – December 2019

Occupation or position held Assistant Researcher

Main activities and responsibilities Responsible for Hardware and Software implementation for the following projects:  
- „Distributed stress, temperature, and chemical sensing within a single optical fiber – FOSLAB”, ID number P\_37\_788, code SMIS 103364” , 2016-2020  
- "Creating a new atomic force microscope, with a scanning system for large surfaces and for atomic resolution, with facilities for measurement in contact and non-contact modes”, POSCCE/6/2/O.2.3.3/ Contract number 601/01.12.2013 , code SMIS 47541” , 2013-2015

Name and address of employer NanoPro Start MC, Bucharest, Romania

Type of business or sector Research

Period January 2013 – December 2019

Occupation or position held Assistant Researcher

Main activities and responsibilities Responsible for Software implementation on the following projects

- „Graphene-based composites towards wearable energy storage” - PN-III-P1-1.1-TE-2016-1544, 2018 – 2020
- „Fabrication and functionalization of nanostructured metallic foams for energy storage applications” - M-ERA.NET-NANOFOAM, 2016 – 2018
- „Novel nanostructured tin based alloys for electronic applications and as electrode materials for lithium ion batteries using ionic liquid analogues”, M-ERA.NET-NOVTINALBEST, 2016 – 2018
- „Novel battery based on ionic liquids and nanostructured anode”, PN-II-PT-PCCA-2013-4-1561, 2014-2017.
- “High performance nanostructured coatings using ionic liquids based on choline chloride” – NANOCOATIL”, M-ERA NET, 01.01.2014 - 31.12.2015
- ENIAC 03/22.01.2013/ “LAB FAB for smart sensors and actuators MEMS” Lab4MEMS, ENIAC/UEFSCDI, 2013-2015,
- „Graphene-enabled design of nanoplatfoms towards optoelectronic and photocatalytic applications” - PN-II-RU-TE-2014-4-0806, 2015-2017

Name and address of employer Center of Surface Science and Nanotechnology (CSSNT) – University POLITEHNICA of Bucharest

Type of business or sector Research

Period February 2013 - September 2013

Occupation or position held Engineer

Main activities and responsibilities CATIA Design for RTR (Renault Technologie Roumanie), DIAM department.

Name and address of employer AKKA ROMSERV, Street Delea Noua no.2

Type of business or sector Automobile

Period 2012 – present

Occupation or position held Founder - Vice President

Main activities and responsibilities Responsible for all the technology side of the main event. Including building interactive objects, and organizing robot competitions.

Name and address of employer faSCInation NGO

Type of business or sector Interactive science events ([www.scikids.ro](http://www.scikids.ro)).

Period August (2012) – November (2012)

Occupation or position held Engineer

Main activities and responsibilities Research and Development for Industrial Projects.

Achievements Automation of an access gate for people with bike.  
Design and implementation of an automatic PCB drilling machine.  
Design and implementation of Peco panels and street lamps using LED's.  
Design and testing of a device to handle waste for conversion into fertilizer.

Name and address of employer SC PROGEN IMPEX SRL, Street Azurului no.1

Type of business or sector Services & BPO

## Education and Training

Period October 2012 – June 2014

Qualification / Diploma Master Degree

Principal subjects / Occupational skills Advanced Mechatronics / Development for modular robots, capable of structural reconstruction.

Name and type of education / training provider University POLITEHNICA of Bucharest, Faculty of Mechanical Engineering and Mechatronics.

Period October 2008 – June 2012

Qualification / Diploma University Degree

Principal subjects / Occupational skills Mechanical Engineering in English

Name and type of education / training provider | University POLITEHNICA of Bucharest, Faculty of Engineering in Foreign Languages

Period | September 2004 – June 2008

Qualification / Diploma | High School

Principal subjects / Occupational skills | Mathematics - Informatics

Name and type of education / training provider | National College of Computer Science “Tudor Vianu”.

### Personal Skills

Mother tongue(s) | Romanian

Other Language(s)

Self-assessment

European Level(\*)

English

French

| Understanding |         | Speaking           |                   | Writing |
|---------------|---------|--------------------|-------------------|---------|
| Listening     | Reading | Spoken interaction | Spoken production |         |
| C2            | C2      | C2                 | C2                | C2      |
| B1            | B2      | A2                 | A2                | A2      |

### Organizational / Managerial skills

Mentor (Robotics) in the educational project Tech School ([www.techschool.ro](http://www.techschool.ro)), and for the project SmartNation  
Leader of the robotics club “RObotiqueFF” from 2010 to 2015 which activates in the University “Politehnica” of Bucharest.  
Judge Advisor for the FIRST Tech Challenge Tournament from American School of Bucharest in 2013 and 2014  
Referee for EuroBot, national stage, Sibiu 2013.

### Technical skills

Cad (Catia, Solidworks, Autocad) – gearbox design, robotics design and implementation, custom systems design.  
Hardware (design and build Robots: Sumo, Mini Sumo, Football, Line follower, Quad copter; CNC cutting machine; operate 5 axis CNC milling machine).  
Electronics (Eagle, Proteus) – design and development of electronic circuits.

### Computer skills

European Computer Driving Licence (ECDL).  
Certified in Informatics by the National College of Computer Science “Tudor Vianu”.  
CCNA Exploration: Network Fundamentals

Programming (C/C++, Matlab, LabVIEW, Flash ActionScript)  
Simulation (Simulink, AmeSim, COMSOL Multiphysics).

**Other skills**

Press releases and online articles to promote robotics:

<http://stirileprotv.ro/ilikeit/smart-things/ilikeit-romanul-care-creeza-roboti-de-lupta-si-drone-miniaturale-unde-preda-cursuri-de-robotica.html>

<http://stirileprotv.ro/stiri/ilikeit/editie-speciala-la-ilikeit-cu-alin-jderu-un-roman-maestru-in-robotica-la-numai-23-de-ani.html>

<http://www.cariereonline.ro/articol/tinerii-vizionari-ii>

<http://www.cariereonline.ro/articol/tehnica-tehnologie-%C8%99i-previziuni-la-evenimentul-de-lansare-al-revistei-cariere>

<http://bizcampus.com.ro/despre-robotica-un-interviu-cu-alin-jderu-mentor-techschool/>

... or just google me ;)

**Awards**

Third place – national stage Robochallenge Romania - 2013 - category: Sumo

Second place – national stage Robochallenge Romania - 2012 - category: Sumo

Second place – local stage Robochallenge Romania - 2012 - category: Sumo

Third place – local stage Robochallenge Romania - 2012 - category: Mini Sumo

Third place – local stage Robochallenge Romania - 2011

Third place - Robochallenge Vienna - 2010

Second place – national stage Robochallenge Romania - 2010

First Place – local stage Robochallenge Romania - 2010

Third place – Student Scientific Communication Session – 2009

Second place – Student Scientific Communication Session - 2010

**Driving License(s)**

B, from 2007

**Annexes**

Alexandru-Alin JDERU