



Alexandru Aloman

Home : Bucharest, Romania

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Gender: Male **Date of birth:** 27/08/1992 **Nationality:** Romanian

WORK EXPERIENCE

[2017 – Current]

R&D Engineer

STS – Special Telecommunications Service

City: Bucharest

Country: Romania

- Managing distributed peer-to-peer infrastructure;
- Developing CI/CD roadmap; Execute product development processes;
- Automation skills with Puppet;
- Nginx configuration skills: web server, reverse proxy, load balancer, rate limiting, HTTP basic authentication, SSL certificate;
- Blockchain Infrastructure Monitoring: Prometheus, Grafana;
- Develop and automate standard operating procedures around common failure scenarios;
- Telecommunication systems (hardware and software) development, from feasibility prototype through product implementation and integration;
- Generate concepts and solutions for new products as well as provide engineering support for existing products.
- Collaborate with other engineers, technicians, contract manufacturers, assemblers, or other support personnel to assist in debugging and optimizing product and manufacturing processes performance;
- Estimate project costs and contribute to creating department budgets and records;
- Interface with external suppliers for component and process design.

Roles and attributions in European projects:

European Blockchain Services Infrastructure (EBSI) - **Node Operator**

Roll-out of OnePass - an SSI and Blockchain- based Funding Distribution Platform - on the European Entrepreneurial Ecosystem - **STS representative (Tech Lead)**

[2015 – 2017]

Network Administrator

STS – Special Telecommunications Service

City: Bucharest

- Managing servers in a highly available critical infrastructure;
- CentOS, Ubuntu, Debian system administration and performance tuning;
- Shell, Python scripting;
- Jira;
- Install, configure and maintaining web services;
- Maintain and upgrade existing software and hardware that have become obsolete;
- Monitor computer networks and systems to identify how performance can be improved;
- Create and maintain network users/permissions;
- Create technical support documentation for systems and applications.

EDUCATION AND TRAINING

[2017 – Current]

Joint Supervision of Doctoral Studies

Military Technical Academy (Bucharest, Romania)- Technical University of Cartagena (Spain)

Erasmus mobility:

- Contributions to the study and optimization of antennas for satellite communications systems - Technical University of Cartagena, Cartagena, Spain (09.2018 – 12.2018)

[2015 – 2017]

Master's degree

Military Technical Academy <https://mta.ro/>

Address: Bucharest, Romania

Field(s) of study: Telecommunication Systems Engineering and Electronic Security

Erasmus mobility:

- Analysis and design of line-source slotted-coaxial feeders for conical reflector antennas for space applications - Technical University of Cartagena, Cartagena, Spain (02.2016 – 06.2016)
- Design of novel reflector antennas for satellite communications - Technical University of Cartagena, Cartagena, Spain (08.2016 – 12.2016)

[2015 – 2016]

Master's degree

Titu Maiorescu University <https://www.utm.ro/>

Address: Bucharest, Romania

Field(s) of study: European Union Law

[2015 – 2016]

Accreditation of the Psycho-pedagogical Training Program for the Certification of Competencies for the Didactic profession

Titu Maiorescu University

Address: Bucharest, Romania

[2011 – 2015]

Bachelor's degree

Military Technical Academy <https://mta.ro/>

Address: Bucharest, Romania

Field(s) of study: Electronic Engineering and Telecommunications

Erasmus mobility:

- Application-based end-to-end performance testing of video transmission over LTE at IP level – Technical University of Cartagena, Cartagena, Spain (02.2015 – 05.2015)

[2007 – 2011]

School leaving

"Mihai Viteazul" National College <https://www.cnmv.ro/>

Address: Bucharest, Romania

Field(s) of study: Mathematics and Computer Science

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C1

Spanish

LISTENING B2 READING B2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

DIGITAL SKILLS

Networking | Linux | C++ | JavaScript | MySQL | Git | JSON | HTML5 | CSS3 | React
| Github | Blockchain | Solidity | Quorum | Python

PUBLICATIONS

[2015]

Performance evaluation of video streaming using MPEG DASH, RTSP, and RTMP in mobile networks

Reference: 8th IFIP Wireless and Mobile Networking Conference (WMNC 2015), Munich
Aloman, A.; Ispas, I.; Ciotirnae, P.; Sanchez-Iborra, R.; Cano, M-D.

[2016]

Performance evaluation of integrated platforms using VoIP signaling protocols analysis

Reference: Communications (COMM), 2016 International Conference on, Bucharest
Petrescu, V-N.; Ciotirnae, P.; Rincu, I-C.; Aloman, A.; Nichita, M-V.

[2016]

The influence of electromagnetic interference over satellite communication

Reference: Communications (COMM), 2016 International Conference on, Bucharest
Aloman, A.; Ghile, V.; Bartusica, R.; Bindar, V.; Popescu, M.

[2017]

Leaky-Wave Antennas Designs for Wi-Fi band in Substrate Integrated Waveguide Technology

Reference: MTA Review, Vol.XXVII, No. 2, Dec. 2017, Bucharest

Victor-Nicolae Petrescu ; Alexandru Aloman ; Ioan Nicolaescu ; Jose Luiz Gomez Tornero

[2018]

Analysis and Design of Line-Source Slotted-Coaxial Feeders for Conical Reflectors Antennas

Reference: 2018 International Conference on Communications (COMM), Bucharest
Aloman Alexandru ; Petrescu Nicolae-Victor ; Grecu Ionut-Valentin ; Jose Luis Gomez Tomero

[2022]

Analysis and Design of a Helical Leaky-Wave Antenna for Satellite Communications

Reference: 2022 International Conference on Communications (COMM), Bucharest
Aloman Alexandru; Miguel Poveda-Garcia; Ionut-Valentin Grecu; Nicusor Druta; Ioan Nicolaescu

SOCIAL SKILLS AND HOBBIES

Social skills

An action-oriented, hands-on engineer with strong communication and interpersonal skills, team spirit, long term working tasks assignments, using ingenuity and creative visions to develop and implement technical solutions. Able to work under pressure and making quick decisions when required.

Hobbies

I consider positive experiences that sports and an active lifestyle bring play an important role in a person's life, so playing and practicing different sports such as squash, basketball, mountain climbing and fitness make me more healthy. I enjoy organizing trips to different countries all over the world, backpacking being one of my favourite leisure activity. I also enjoy spending time socializing with my friends and going to events, concerts and fun days out to meet new people and develop my social and people skills in the process.