

Alexandru GAL

Director Tehnic / CTO

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PROFESSIONAL PROFILE

Technical Director with over 20 years of experience in software development and technical leadership, Ph.D. in Engineering and Master's in Information Security. Extensive experience in designing and implementing enterprise SaaS platforms, distributed systems, and cloud architectures (AWS, Azure). As CTO of PROCESIO, leads the technical team in developing an enterprise automation platform used by major companies in the Romanian energy sector (E.ON, Electrica Furnizare, Engie). Deep competencies in .NET (6-8), C#, microservices, distributed databases (MySQL, MS-SQL, Cassandra, Redis), and cloud technologies.

ROLE IN THE MMS MOLDELECTRICA PROJECT

As Technical Director of the MMS Moldelectrica project, will ensure technical strategic direction and implementation quality:

- Definition of technological stack and architectural strategy for the MMS platform
- Supervision of code quality, development standards, and code review processes
- Evaluation and integration of technologies for scalability, security, and performance (microservices, containerization, CI/CD)
- Technical review of critical deliverables and design documentation (HLD/LLD)
- Mentoring of technical team and facilitation of complex architectural decisions

KEY COMPETENCIES

✓ .NET (6-8), C#, ASP.NET Core	✓ Cloud Architecture (AWS, Azure)
✓ Microservices and distributed systems	✓ Databases (MySQL, MS-SQL, Cassandra, Redis)
✓ RabbitMQ, message queuing, event-driven patterns	✓ Information Security (Master's specialized)
✓ Technical Leadership and People Management	✓ SaaS Platform Development

PROFESSIONAL EXPERIENCE

Chief Technology Officer (CTO) PROCESIO / Ringhel Team SRL	Oct 2022 - Present
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Enterprise automation platform used in the Romanian energy sector.

- Leads strategic direction of PROCESIO platform technological infrastructure
- Manages backend team of 15+ developers in delivery of complex functionalities
- Architecture based on microservices .NET 6-8, RabbitMQ, Redis, Docker containerization
- Integration of platform with energy sector clients' systems (E.ON, Electrica, Engie) through RESTful and SOAP APIs
- Implementation of CI/CD pipelines and quality assurance processes

Relevant clients: E.ON, Electrica Furnizare, Engie, CEZ Romania

Senior Team Lead / Development Manager	Nov 2020 - Oct 2022
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PROCESIO / Ringhel Team SRL	
<ul style="list-style-type: none"> Backend system development using .NET 6-8, RabbitMQ, Redis, MySQL, MS-SQL, Cassandra Coordination of multidisciplinary developer teams for Low-Code/No-Code platform Implementation of cloud solutions on AWS and Azure for enterprise clients in energy sector Design of integration architecture with external systems from energy market 	
Scientific Researcher Degree 2 Institutul de Mecanica Solidelor al Academiei Romane (IMSAR)	Jan 2011 - Present
<ul style="list-style-type: none"> Development of advanced control algorithms for mobile robots (wheeled and walking) Research in fuzzy and neutrosophic decision-making, applicable in optimization systems Scientific publications in the field of engineering and computer science 	
Senior Software Engineer Silverlink Technologies (ACI Payments)	Iul 2018 - Apr 2020
<ul style="list-style-type: none"> Development of Documents and Banking modules using .NET, C#, WPF Implementation of electronic payment systems with strict security and compliance requirements Unit testing cu Moq si MSTest Framework 	
Software Developer Iron Sheep Tech / Novartis	2010 - 2017
<ul style="list-style-type: none"> Development of mobile applications (Unity, C#) and web (ASP.NET, PHP, MySQL) Maintenance of intranet portals for international pharmaceutical companies 	
Automation Engineer & Software Developer Inginerie si Tehnologie Industriala VTC	2006 - 2010
<ul style="list-style-type: none"> PLC programming (ladder logic, structured text) for industrial automation systems GUI design for automation facilities - relevant experience for SCADA/EMS 	

EDUCATION

Doctor of Philosophy (Ph.D.) - Mechanical Engineering

[Institutul de Mecanica Solidelor al Academiei Romane](#)

2009 - 2013

Master's in Information Security

[Academia de Studii Economice, Facultatea de Cibernetica](#)

2008 - 2010

Engineer - Computers and Automation

[Universitatea Politehnica Bucuresti](#)

2002 - 2007

FOREIGN LANGUAGES

- Romanian - Native
- English - Advanced