



Ioana Alexandru

● **EXPERIENȚA PROFESIONALĂ**

04/2021 – ÎN CURS – Timisoara, România

SOFTWARE ARCHITECT LA VITESCO TECHNOLOGIES

02/2019 – ÎN CURS

**CADRU DIDACTIC ASOCIAT IN CADRUL UNIVERSITATII POLITEHNICA TIMISOARA,
FACULTATEA DE AUTOMATICA SI CALCULATOARE**

Teaching Automation and Embedded Systems concepts

04/2019 – 12/2020 – Timisoara, România

SOFTWARE DEVELOPMENT ENGINEER LA ENDAVA

12/2018 – 03/2019 – Timisoara, România

SOFTWARE DEVELOPER LA WIPRO

Adresă Timisoara, România

07/2017 – 12/2018 – Timisoara, România

SOFTWARE DEVELOPER LA PINTEAM S.A.

Adresă Timisoara, România

07/2016 – 10/2016 – Timisoara, România

SUMMER PRACTICE LA CONTINENTAL-AUTOMOTIVE

Adresă Timisoara, România

● **EDUCAȚIE ȘI FORMARE PROFESIONALĂ**

09/2019 – ÎN CURS

PHD DEGREE – Universitatea Politehnica Timisoara

2017 – 07/2019 – România

MASTER'S DEGREE, AUTOMOTIVE EMBEDDED SOFTWARE – Universitatea Politehnica Timisoara

Adresă România

2014 – 2017 – Timisoara, România

BACHELOR'S DEGREE – Universitatea Politehnica Timisoara, Facultatea de Automatica si
Calculatoare - Sectia Informatica

Adresă Timisoara, România

● **PUBLICAȚII**

Automotive IoT Ethernet-Based Communication Technologies Applied in a V2X Context via a Multi-Protocol Gateway

2022

Published: 24 August 2022 in **Sensors**

DDS and OPC UA Protocol Coexistence Solution in Real-Time and Industry 4.0 Context Using Non-Ideal Infrastructure

2021

Published: 22 November 2021 in **Sensors**

Approaching OPC UA Publish-Subscribe in the Context of UDP-Based Multi-Channel Communication and Image Transmission

2021

Published: 11 February 2021 in **Sensors**

Improving OPC UA Publish-Subscribe Mechanism over UDP with Synchronization Algorithm and Multithreading Broker Application

2020

Published: 29 September 2020 in **Sensors**

OPC UA Publish-Subscribe and VSOME/IP Notify-Subscribe Based Gateway Application in the Context of Car to Infrastructure Communication

2020

Published: 17 August 2020 in **Sensors**

VSOMEIP - OPC UA Gateway Solution for the Automotive Industry

2019

Published In : 2019 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC)

● **COMPETENTE PROFESIONALE**

Job-related skills

Embedded systems
Embedded C/C++
Programming
OPC UA communication protocol
VSome/Ip communication protocol
DDS
Real Time Operating Systems
Software Architecture
Software Integration

Experience working with Linux
Electronics Concepts
Powertrain concepts
Communication Protocols
Autosar concepts
Microcontrollers & Microprocessors (Aurix, Renesas, Freescale, Texas Instruments, Raspberry, S32G)
Experience with GTM(Generic Timer Module) patent on microcontrollers
Experience with SVN, GIT, JIRA

● **COMPETENȚE ORGANIZATORICE**

Organisational skills

ability to analyze and synthesize
responsibility for all the tasks assigned
leadership and organizational skills (mentor/teacher/technical lead experience)
team skills
prioritization skills
creativity

● **COMPETENȚE DE COMUNICARE ȘI INTERPERSONALE**

Communication and interpersonal skills

good communication
confidence
clarity
concision

● **COMPETENȚE LINGVISTICE**

Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
ENGLEZĂ	B2	B2	B2	B2	B2

Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat

● **PERMIS DE CONDUCERE**

Permis de conducere: AM

Permis de conducere: B1

Permis de conducere: B