



Stefan-Radu Chisozan

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● WORK EXPERIENCE

SOFTWARE ENGINEER – CONTINENTAL AUTOMOTIVE ROMANIA – 01/11/2010 – 01/06/2015 – TIMISOARA, ROMANIA

1. Development and testing of new features on legacy Cluster devices
2. Development of a new platform for full TFT Cluster devices

SENIOR SOFTWARE ENGINEER – HELLA ROMANIA – 01/07/2015 – 01/04/2023 – TIMISOARA, ROMANIA

1. Technical lead for the department's software team
2. Responsible for defining the architecture and development of a gesture sensor for automotive integration using Renesas micro controllers and the Silicon Labs sensors. Notable tasks included: Flash API integration, Sensor Driver, Lin Stack integration, UART Stack implementation, Data Handlers, Application Module. The sensor was presented as a replacement for physical buttons for: Car Windows, Sun Hatch, Interior Lights, Fuel Flap, Trunk and others.
3. Responsible for the implementation and integration of a convolutional neural network on Renesas microcontroller. The NN was used to classify gestures based on sensor inputs. The NN was written from scratch for performance reasons.
4. Responsible for Implementation of a support application in C# and WPF using Telerik Progress for a Neural Network driven gesture sensor. The application featured a training system for end users, sensor feedback. It was also used as a system presenter.
5. Responsible for defining the architecture and development of power convertor applications(including Induction Motor drivers) on a range of Texas Instruments Digital Signal Processors. This project implied implementing Base Software modules(PWM, ADC, DAC, SPI, CAN, SCI, DSFM, IPC, QEP, etc), Middle-ware Modules(PWM signal generators, Error Handlers, Communication Handlers), and Application Modules (Control Loops, State Machines). Texas Instruments DSPs used were dual core with each core having a co-processor for computing intense mathematical control loops.
6. Responsible for defining the architecture and development of Automatic Optical Inspection software for integration in production environments. The application was written in Python, using mainly OpenCV for image processing and QT for the front end. The application worked as a platform for creating inspection scenarios, using a different array of inputs (Cameras, Profile Lasers), and actuating robotic arms and linear axis.
7. Responsible for Implementation of a CANoe clone using C# and WPF used for internal projects. The clone featured an interface to the Vector drivers, a graphs system, an interaction layer for the CAN messages, 3D Data Plotter and a worked as a platform for the application interface.
8. Scrum master role on all projects developed in the department

ENGINEERING CONSULTANT – MYRU&CHI2005 SRL – 01/04/2023 – Current – TIMISOARA, ROMANIA

Huf Romania

1. Responsible for implementation of all components of a smart car door handle.
2. Responsible for implementation of sensor drivers and algorithms (capacitive, inductive, etc).
3. Responsible for updating and maintaining the communication stacks for the project (UART, LIN).
4. Responsible for implementation of gesture detection of the door handle.
5. Responsible for maintaining the Base SW: Implementing new functionality as needed or integrating functionality developed by other teams.

Veoneer Romania

1. Responsible for the end-to-end lifecycle of airbag HiL (Hardware-in-the-Loop) testing equipment, including architecture design, implementation, and system integration.

2. Responsible for maintaining and upgrading HiL infrastructure to support evolving project requirements and test environments.
3. Responsible for debugging and resolving complex hardware-in-the-loop integration issues.

● **EDUCATION AND TRAINING**

01/09/2007 – 01/09/2011 Oradea, Romania
ENGINEER Universitatea din Oradea, Facultatea de Inginerie Electrica si Tehnologia Informatiei

Address Str. Universității nr. 1, Oradea, Romania

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Programming Languages

Python | C++ | C# | C | CAPL | JavaScript | HTML

Technologies

Design Patterns | Embedded C | OpenCV | LIN | QT | CAN | Linux | Embedded Software | Embedded Linux | AutoHotKey scripting | GoogleAPI | MISRA | UART, SPI, I2C | QAC

Tools

Git | Vector CANoe | Microsoft Office | Rational DOORS | PTC Integrity | Management tools (JIRA, Confluence)

Systems

Texas Instruments DSPs | Renesas Microcontrollers | Robotic Arms | Raspberry Pi | Nvidia Jetson | Linear Axis | Profile Lasers | ESP32 | Arduino

● **PROJECTS**

Personal Projects

Developed a small business workflow application using Google Appsheet with Google App Scripts (GAS) to automate processes and manage workflows. Implemented custom business logic and data automation using Google App Scripts to enhance functionality.

Developing a small application for secure file transfer and messaging, React + Tailwind CSS and Supabase as backend. Project is built using a self designed Claude Code scaffolding.