# Mircea Ionica

Sibiu • Romania

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## Software Consultant

Highly effective software consultant with more that 12 years of experience in automotive projects.
Offering an array of skills in Classic AUTOSAR, Adaptive AUTOSAR, Software Engineering, Software Architectural Design, Requirements Management, Build and Configuration Management, Unit, Integration and System Testing.
Proven ability to perform complex tasks while meeting targets and schedules.
Generalist type which hands on experience in all topics of software development: OOP, Web, scripting, Windows Applications, Containers, Linux Applications.
Pleasant to work with and team oriented.

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## Experience

- **Freelancer**                                    **Sibiu, Romania**
  *Expert Software Developer, Software Architect, Agile Team Leader*                    *2016 – present*

  – Design, implement and test Classic AUTOSAR DLT BSW module (C)
  – Design, implement and test Adaptive AUTOSAR Applications (C++)
  – Design, implement and test Software Components - SWC (C)
  – Involved in requirements elicitation and documentation for ADAS related system
  – Coordinating a cross-functional Agile Team
  – Making architectural decisions and creating decompositions and views for ADAS related SW (Classic AUTOSAR)

- **3Soft Automotive SRL**                                    **Sibiu, Romania**
  *Senior Software Developer*                                    *2015 – 2016*

  – Maintenance, development and bug fixing ZF's Middleware Library for various transmission ECU (TCU) projects (C).
  – Requirements analysis and implementation from both the customer (ZF) and OEMs (e.g. BMW).
  – AUTOSAR communication stack configuration and adaptation (CAN and FlexRay).
  – UDS (ISO 14229-1- 2013) diagnostic routines and DIDs configuration. Analyse UDS implementation (NRC handling for all services).
  – Implementing system tests (python).

- **Visteon Electronics GmbH**                                    **Monheim am Rhein, Germany**
  *Consultant - Senior Software Developer*                                    *2014 – 2014*

  – Bug-fixing Autosar SWCs for the VW instrument cluster, MQB platform (C).
  – Implementing costumer requirements (C).

- **Bosch Car Multimedia GmbH**                                    **Hildesheim, Germany**
  *Consultant - Senior Software Developer*                                    *2014 – 2014*

  – Bug-fixing Autosar SWCs for the Gen3 car radio (C).
  – Implemented reset and wakeup sources monitoring (V850) (C).
  – Defined the concept and implemented the exception handling for V850.

- **3Soft Automotive SRL**                                    **Sibiu, Romania**
  *Senior Software Developer*                                    *2012 – 2014*

  – Designed, developed and coordinated the AUTOSAR Xcp slave module (C).
  – Performed integration tests with CANape.
  – Implemented a plugin for an Eclipse based AUTOSAR BSW configurator to generate ORTI files based on the system description (Java).
  – Offered customer support with Xcp technical issues.

- **Continental Automotive Systems SRL**                                    **Sibiu, Romania**
  *Summer Intern, Junior Software Developer, Software Developer*                                    *2007 – 2012*

- Implemented an automatic test framework (C#).
- Maintained and integrated the AUTOSAR memory stack into the legacy ECU SW (C); .
- AUTOSAR MCAL development for TI and Freescale uC (C).
- Maintenance, configuration management, debugging, testing and release management of existing embedded application (Electronic Brake System) - mostly for hardware related software
- Planned and performed system tests (HIL and SIL).
- Trainer for Autosar Memory Stack and V-Cycle development.
- Implemented a wizard to configure the ECU's entire NV memory stack starting from the legacy configuration end ending up with the AUTSAR memory stack (Java).
- Implemented a tool to fetch MKS (now known as PTC) requirements from the server, translate them, and upload them back (Java).
- Implemented a prototype for employee's training database (Javascript).

## Education

- **Lucian Blaga State University**  **Sibiu, Romania**
  *Faculty of Engineering, B.S. Computer Science*  *2003 − 2008*

## Core Technical Skills

**Languages:** C (expert), C++(proficient), Java (prior experience), C#(prior experience), python (prior experience)

**Methods:** Agile, Design Patterns, Clean Code, Clean Architecture, SOLID principles, UML, OCI containers, Pomodoro time management, GTD tasks management

**Tools:** Canape, Canoe, git, svn, Enterprise Architect, PTC, Doors, WinIdea Genivi Dlt Viewer, Tresos, DaVinci, Eclipse, Visual Studio Code, etc.

**Certifications:** IREB Foundation level