

Mircea Ionica

Sibiu • Romania

0040.xxxxxx.xxx • <https://www.linkedin.com/in/mircea-ionica/>

Experience

- **Freelancer**
Expert Software Developer, Software Architect, Agile Team Leader

Sibiu, Romania
2016 – present

 - Coordinating a cross-functional Agile Team
 - Involved in architectural decisions and decompositions for ADAS related SW (Classic AUTOSAR)
 - 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)
 - **3Soft Automotive SRL**
Senior Software Developer

Sibiu, Romania
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**
Consultant - Senior Software Developer

Monheim am Rhein, Germany
2014 – 2014

 - Bug-fixing Autosar SWCs for the VW instrument cluster, MQB platform (C).
 - Implementing costumer requirements (C).
 - **Bosch Car Multimedia GmbH**
Consultant - Senior Software Developer

Hildesheim, Germany
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**
Senior Software Developer

Sibiu, Romania
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**
Summer Intern, Junior Software Developer, Software Developer

Sibiu, Romania
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**
Faculty of Engineering, B.S. Computer Science

Sibiu, Romania
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, OCI containers

Tools: Canape, Canoe, git, PTC, Doors, WinIdea Genivi Dlt Viewer, Tresos, DaVinci, Eclipse, Visual Studio Code, too many to mention :)