Munich (Germany)   # Mr Michele Iarossi   michele@mathsophy.com

About

· Seasoned software engineer with 15+ years of experience in the automotive sector
· Focus on embedded software development and integration
· Expertise in AUTOSAR and diagnostic protocols
· Thrive on leading, mentoring and working with multicultural teams in complex and challenging projects
· Strong communication skills in German, English, French and Italian

Employment

Expert	**Elektrobit (Germany)**	**2012 –**

Develop software for automotive electronic control units based on the AUTOSAR standard

Software Engineer	**Magneti Marelli / Da Vinci Engineering (Germany)**	**2009 – 2012**

Developed software for automotive instrument clusters based on double microcontroller architecture

Software Engineer	**Dune (Italy)**	**2001 – 2009**

Implemented algorithms on digital signal processors (DSP) for signal processing applications

Education

Rome (Italy)	**Sapienza University**	**1993 – 1999**

· *Laurea cum Laude* in Electronic Engineering (July 1999)
· Faculty of Electronic Engineering and InfoCom Department

Technical Experience

· **Diagnostic expert group** (2022): Lead the diagnostic expert group in providing solutions to diagnostic related issues
· **AUDI High Computing Performance ECU** (2020 –2022): Provide AUTOSAR support for diagnostic and boot-loader topics
· **BMW Medium and Front Range Radars** (2017 – 2019): Integrated AUTOSAR basic software modules and communication stacks (Ethernet, CAN)
· **VW Generic Bootloader** (2012 – 2015): Developed and maintained the VW flash bootloader
· **Porsche Instrument Cluster** (2009 – 2012): Implemented end of line routines for driving HW components
· **Wide Open/Super Het receivers** (2008 – 2009): Designed the control SW in C++ running under the Wind River VxWorks real-time operating system
· **Voice/Data Crypto device** (2004 – 2009): Developed in assembler the generation of digital (300, 600, 1200, 2400 bps) and analog (DQPSK modulation) waveforms running on a fixed-point DSP
· **EU Project** (2001 – 2003): Evaluated signal processing algorithms for UMTS terminals in MATLAB

Additional Experience

· **Patent Examiner** (2016 – 2017) at the European Patent Office (EPO) in The Hague (The Netherlands)
· **Reviewer** (2002) for the IEEE Potentials magazine

Computer Languages and Technologies

· Embedded C (proficient); Python, C++, MATLAB, Assembler (prior experiences)
· EB tresos Studio, Vector CANoe; Automotive Ethernet, Wireshark
· ISO diagnostic protocols 14229 (UDS) and 13400 (DOIP)
· Lauterbach TRACE32 and Green Hills MULTI debuggers; SVN, Git; Jenkins; LaTeX, MS Office

Portfolio

· **Python code snippets** https://www.mathsophy.com/python-codesnippets
· **Binary search trees** https://www.mathsophy.com/post/binary-search-trees-and-avl-trees