Munich (Germany)

Mr Michele Iarossi

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About

- Software engineer with 20+ years of experience in embedded computing
- Focus on embedded software development
- Expertise in classic AUTOSAR and automotive diagnostic
- Thrive on leading, mentoring and working with multicultural teams
- Strong communication skills in German (C2), English (C2), French (B2) and Italian (native)

Employment

Expert **Elektrobit GmbH (Germany)** **2012 –**
Developing software for automotive electronic control units based on classic AUTOSAR

Software Engineer **Magneti Marelli / Da Vinci Engineering GmbH (Germany)** **2009 – 2012**
Developed software for automotive instrument clusters based on dual microcontroller architecture

Software Engineer **Dune Srl (Italy)** **2001 – 2009**
Implemented algorithms on digital signal processors (DSP) for signal processing applications

Education

Rome (Italy) **Sapienza University** **1993 – 1999**
- *Laurea cum Laude (110/110)* in Electronic Engineering (Master's degree, July 1999)
- Faculty of Electronic Engineering and InfoCom Department

Projects

- **Diagnostic Expert Group** (EB, 2022): Leading the expert group in solving project related diagnostic issues
- **High Computing Performance ECU** (EB, 2020 – 2023): Providing premium AUTOSAR support (Audi AG)
- **Front Range Radar** (EB, 2017 – 2019): Integrated AUTOSAR basic SW modules and Ethernet/CAN communication stacks (BMW AG)
- **Generic Bootloader** (EB, 2012 – 2015): Developed and maintained the generic flash bootloader (VW AG)
- **Instrument Clusters** (Magneti Marelli, 2009 – 2012): Implemented end of line routines driving HW actuators and sensors (Porsche AG)
- **Wide Open/Super Het Receivers** (Dune, 2008 – 2009): Developed in C++ the control SW running on a PowerPC board with VxWorks real-time OS (Elettronica SpA)
- **Voice/Data Crypto Radio** (Dune, 2004 – 2009): Programmed in assembler on a fixed-point DSP the generation of digital (300, 600, 1200, 2400 bps) and analog (DQPSK modulation) waveforms (Leonardo SpA)
- **EU Projects** (Dune, 2001 – 2003): Evaluated signal processing algorithms for 3G terminals in MATLAB

Additional Experience

- **Patent Examiner** (2016 – 2017) at the European Patent Office (EPO) in The Hague (The Netherlands)

Skills

- Classic AUTOSAR with focus on the diagnostic stack (Dcm, Dem)
- ISO and SAE diagnostic protocols 14229 (UDS), 13400 (DOIP), 15031 (OBD), J1979-2 (OBDonUDS), J1979-3 (ZEVonUDS)
- Embedded C (proficient); Lua, Python, C++, MATLAB, Assembler (prior experiences)
- EB tresos Studio, Wireshark, Git, LaTeX, MS Office

Portfolio

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