Romera Jiménez, Manuel José

Embedded Software Engineer

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GOALS

I expect to keep growing and developing my skills, for that I am always looking for a job which allow me to interact with people around the world, sharing knowledge and new technologies experiences.

PROFESSIONALS SKILLS

- Work with *Aribus Military* in the development of a joystick which manages the Gas Tank of the Airbus A-330M.

- Work with *Iturri* in the development of a military hybrid vehicle, focused on the Energy Management System.

- Published paper: System based on BitCloud Stack for Ambient Living and Smart Buildings, in the *"3rd International ICST Conference on IT Revolutions"*

- Navigation system head engineer for an autonomous car inside *PLATINO* project, which consists in a convoy of UGVs (Unnamed Ground Vehicles).

- Work with *CESA* in the development of a CockPit Simulator for a military helicopter.

- Development of Telematic Control Unit (TCU) for electric cars, deploying services such charge scheduler or navigation help.

- Development of home security system *Wardiam* based on *CMF (Controlled Magnetic Fields)* for preventive alarms.

- Work with Chrysler and Ford vehicles in advanced diagnosis OBD-II tools, handling DTCs, discover available modules, etc.

SOFTWARE DEVELOPMENT

- High-level software development with C/C++ in embedded systems.

- High knowledge of GCC suite and crosscompile using crosstool to generate toolchains for specific targets.

- Linux knowledge in desktop and embedded version, work with ARMv5 using debian image on it. Embedded Multithreading programming using POSIX Thread (Pthreads) and FreeRTOS over PIC microcontrollers.

- Development of microcontroller software for Freescale, PIC and ARM.

- High experience in software requirements engineering (*Certified Professional for Requirements Engineering* by *IREB*), based on tools like IBM Doors.

- Software development following Spice V-Model, and MISRA compliance using Polyspace analysis tool and VectorCast for unit testing.

NETWORKS KNOWLEDGE

- High studies in IEEE 802.15.4 (ZigBee)

- Develop of embedded applications using BLE (4.0+) standard, 802.11, 802.3, GSM modules and Radio based communications.

- High experience in automotive bus communications: CAN Bus, OBD-II, J1939, Vcomm and CANOpen.

EXPERIENCE

Scholarship and University internship

Apr. 10 – Jun. 12, University of Seville, Seville, Spain.

Development Engineer

May. 12 – Jul. 14, M.D.S. S.A.U. / Carbures Systems, Seville, Spain.

Product Engineer / Software Project Leader

Jul. 14 – Jun. 16, Idneo / Ficosa, Barcelona, Spain.

Senior Software Engineer

Jun. 16 – Present, Ontech Security, Seville, Spain.

Embedded/Automotive Consultant

Sep. 16 – Present, Freelance, Seville, Spain.

EDUCATION

2007 – 2010 Escuela Técnica Superior de Ingeniería Informática, Seville, Spain.

- Technical Degree in Computer Engineering (System speciality).
- Best final degree project in 2010

2011 – 2012 Escuela Técnica Superior de Ingeniería Informática, Seville, Spain.

- Master in Microcontroller and Network Engineering.

INTEREST

English fluently spoken (high experience working in teams with English speakers from several locations, India, Europe, USA, etc.) basic French and German.

Experience managing projects with international partners like Renault&Nissan, Daimler, FCA, etc. Do not mind to travel and to use English as natural language.