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**SUMMARY**

Electronics Engineer with 15+ years’ blend of experience in designing, building and testing solutions for the wireless market, including associated transmissions and detection systems. I hold an M.Sc in Telecommunication Engineering from Universidad Politecnica de Madrid.

Skilled at using network analysers, spectrum analysers and RF tools and devices

Working knowledge of RADAR, RF concepts, Telecommunications RF Infrastructure and radio design theory

Skilled in Micro-controller C programming, MATLAB/LabView programming, VEE environment software, Autocad, Visual C#, MATHCAD, LABWINDOWS, Ansoft Designer, HFSS and Serenade, Agilent EEsof ADS, Altium, Tango, Orcad and Pspice.

Troubleshooting hardware and software combined problems; defining the problems and the issues, then integrating their solutions. Integration of real-time Hardware/Software and instrumentation systems.

Component level/System level - Design and integration of Acceptance Test Procedures (ATP).

I finished an RF simulator, with much less cost than bids from outside companies.

**PROFESSIONAL EXPERIENCE**

2018 – 2019 **Mass Consultants Ltd**

NATO Joint Electronic Warfare Core Staff (JEWCS)

EW Software Systems Principal Technician

Software and hardware projects development:

Digital communications systems with NI-USRP units, RF amplifiers, RF switch and Arduino Leonardo microcontroller board to send and receive text messages in FSK, PSK, QPSK modulations, programmed with LabVIEW.

Remote control of a pedestal for antennas using Linear Actuators, Proximity Sensors and a PCB including a microcontroller.

2017 – 2018 **Self-Employed**

Electronics Engineer

Software and hardware IoT development for DIAM Ltd.

PCB designed, with Altium, including an ATMEGA32 MCU.

2015 – 2017 **European Thermodynamics Ltd**

Electronics Engineer

Software and hardware development for thermoelectric products. LabVIEW test programs with database interface (SQL). TI Bluetooth low energy Software Development Platform and TI RTOS.

PCB designed, with Altium, including CC2650 MCU (ARM Cortex-M0 and M3 processors), temperature and vibration sensors.

ENHANCED: Thermoelectric generator design for aeronautical and automotive applications for use with wireless sensors.  
INFISENSE: Self powering thermoelectric generator and sensor system.

2008 – 2015 **Comunidad de Madrid**

Electronic Systems Teacher

LabVIEW Core 1 and 2 Course (Jun 2012).

2011 -2013 Freelance

Developed a robot controlled by an Arduino board programmed in C, with a module RFID reader, and a wireless module Zigbee in order to communicate with a PC program made with Visual Studio (C#) and a Mysql database.

Implemented a Surveillance system with GUI (Matlab).

2006 – 2008 **GSR Sinérgica de Seguridad**

Head of Telecommunications

Telecommunications Manager for a security company. Central Station Alarms and CCTV.

Designed and implemented WiMAX networks for real-time video, using optical fibre cable and radio links.

Designed solutions in Security Projects, Logistics and Presence Control via satellite.

2002 – 2005 **Comunidad de Madrid**

Electronic Systems Teacher

1997 – 2002 **Indra Espacio**

Ground Stations Department

Systems Engineer

HELIOS Image Reception Centres. Development Senior Engineer. RF Measurements and test procedures definition(Antennas, LNA, Converters, ACU, Filters, Switches, Generators and Equalizers).

Preventive and Corrective Maintenance of synthesizers (X-band), PLO, converters and equalizers.

PSF (Polar Site Facility for EUMETSAT). HW Development Responsible and Design of subsystems for a TT&C and Data Reception Ground Station in L-, S- and X-band.

TMS1-M (upgrade to Ka-band of a ground station in Redu, Belgium, for the European Space Agency). Support and testing of RF subsystems of the station on-site.

Designed a 375 MHz amplified equalizer.

Designed a L-band equalizer for the RF front-end terminal for satellite (Ka-band).

**Others: Alcatel, Indra...**

Developed a GSM railway monitoring project with 68000 micro-controller using C.

Designed, using C and assembler, a PLL IC programming board with a Mitsubishi micro-controller.

Implemented a warfare airborne system (TARAN). Integrated and tested RF subsystems of the aircraft both in-plant and on-site.

Designed and implemented a RF simulation system (DME, IFF and TACAN).

Designed of Labwindows programs for boards test. 4 months course on NEPTUNEL system (warfare ship system) at maintenance level.

Designed and developed a OMT in S Band using Mathcad and Matlab.

Designed antennas.

**EDUCATION**

Institution: Universidad Politécnica de Madrid

Degree(s) or Diploma(s) obtained: Telecommunication Engineer ( M.Sc )

Date and place of birth: 6/3/1964, Madrid**,** Spain

**LANGUAGES**

English: Good. Working language.

Spanish: Mother tongue.