**Miguel Fernandez**

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# Profile

Dynamic Electronic/Mechanical Engineer with over 20 years’ experience within multiple industries such as Aerospace and Automotive services. Creative, persuasive, multi-disciplinary problem solver with a high degree of emotional intelligence and flare for design.

**Qualifications**

ONC Engineering (Electrical/Electronic)

NVQ 3 Engineering Maintenance

Advanced Modern Apprenticeship Aeronautical Eng

Catia V5 Electrical (E3D) certified

Siemens NX certified

Teamcenter 2007, 8.5 & 9.1

Teamcenter visualisation and Mock-up

**EXPERIENCE**

**December 2014 to Present System Design engineer Red Bull Racing F1 Team**

**Skills/Experience**

* Working as part of the design team on the current World Champion Formula 1 car.
* Own the design of specified harnesses and responsible for all issues associated with it.
* Creating conceptual and/or specific solutions within the short time periods allocated.
* Produce circuit pin outs and drawings for the manufacture of looms in a high pressured environment.
* Provide build support and assistance with the installation and fault finding procedures during build phases.

**April 2014 to present EDS CAD engineer Dreaxlmaier**

**Skills/Experience**

* Design of the Jaguar Land Rover (JLR) AJ200Petrol engine harnesses within Powertrain and responsible for all issues associated with it.
* Ensure the harness design meets System Design Specification (SDS) as specified by JLR.
* Safeguard the Design For Manufacturing (DFM) requirements of Draexlmaier ensuring the product is cost effective to create.

**2 Week contract EDS CAD engineer Williams F1 Advanced Engineering**

**Skills/Experience**

* Sole EDS CAD engineer designing the Formula E battery wiring harness.
* Due to a compressed timing plan the work had to be completed within 2 weeks.
* Combing auto sport, PCB and automotive connectors.
* Creation of a CAD electrical library and populate with existing and new connectors.

**August 2013 to March 2014 System Design engineer Red Bull Racing F1 Team**

**May 2013 to August 2013 EDS CAD engineer LEAR**

**Skills/Experience**

* Working with fellow engineers attending design reviews to ensure that the packaging of the harness meets the JLR requirements for retention, safe routing, installation access, service access and all other requests.
* Update the harness design to meet SDS and make changes to the 2D drawings where required.
* Provide build support and assistance with the installation and fault finding procedures during build phases.

**August 2011 to May 2013 EDS CAD Lead Engineer Williams F1/LEONI Wiring Systems**

**Skills/Experience**

* Lead EDS CAD engineer during the design and build phase of the Jaguar C-X75 hybrid Supercar at Williams F1 advanced engineering.
* Co-Ordinate the EDS CAD team work load ensuring all targets are met to the customer’s needs in the time specified.
* Liaise with various suppliers to link OEM automotive to AutoSport /Mil Spec components.
* Present detailed reports during all phases of the project regarding the EDS.
* Carry out fault finding and the rectification of faults, on both OEM and AutoSport systems.

**April 2011 to August 2011 Subject Matter Expert Pennant International**

**Skills/Experience**

* Design of a Lynx Wildcat helicopter maintenance trainer simulator.
* Avionic SME (Subject Matter Expert).
* Creating conceptual and/or specific solutions.
* Analysing requirements and producing associated documentation including specifications.
* Provide designs, plans and Bill of Materials (BoM).
* Presentation authoring and delivery when required for PDR (Preliminary Design Review).

**2010 to 2011 Avionic Technician AgustaWestland**

**Skills/Experience**

* Installation of Top Secret and Classified equipment, conducting relevant trials/tests on prototype systems compiling detailed reports of performance, faults and symptoms.
* Manufacture and installation of wiring looms using Mil spec parts; PTFE/ETFE/Coaxial/Triaxial cable Mil-C-5015/D-type connectors etc...
* Flight deck avionics: - Sensors, electro/mechanical instruments, Head Up Display and cockpit display systems.
* Data acquisition systems: - Flight data recorders, health and usage monitoring systems and engine monitoring.
* Played a significant role in the AH-64 Apache IBES programme. A twelve month process that involves the introduction of civilian contractors and procedures into a military environment.

**2006 to 2010 Director/Automotive Engineer Nandez Creations**

## Skills/Experience

* Concept scheming and design of vehicle wiring looms through to production, diagrams, costing and of associated product.
* Hybrid high voltage electrical system in the areas of battery maintenance, power converters and wiring systems.
* Systems integration – communication interfaces of separate electrical systems and/or manufacturers.
* Worked as a product engineer that designed and tested parts making sure they meet all requirements, performs as required, and have desired durability.
* Relevant project management experience of bespoke systems from procurement of contracts through to customer satisfaction.
* Forecasting budgets, producing costing estimates and work schedules.
* Extensive experience in sales, customer liaison and pre/post technical support for end-users.

**1996 to 2006 Avionics Technician/Supervisor HM Forces**

**Skills/Experience**

* Servicing Aircraft including AH-64 Mk 1 Apache, Lynx Mk 7, Mk 9 and Gazelle aircraft.
* Recording and reforecast of maintenance in accordance with the relevant publications and regulations.
* Excellent working knowledge of Electrical/mechanical component and system test equipment, such as Digital Multi-meter, Oscilloscopes, etc…
* Training, demonstrating and monitoring of aircraft maintenance to junior technicians and assess them against the required standards.

**Employers feedback** **Maj D G Scott’s Officer Commanding Confidential report**

Cpl Fernandez has been employed within an Apache Fitter Section where his performance has exceeded that expected of his rank and experience. He has adapted extremely well to the demands of a new airframe, showing himself able to develop his trade skills and knowledge. As a newly qualified Class 1 he has demonstrated an increasing ability to supervise junior technicians and is able to offer constructive advice. He accepts only the highest standards. He works very well as part of a team, displaying integrity and pride. He maintains his personal fitness to a very good level and is a popular member of his fitter section.

The introduction of the Apache has provided a difficult challenge for all technicians. Cpl Fernandez has enjoyed the transition and has been an asset to the unit. He is flexible and has developed his technical skills further. A capable technician, he enjoys solving problems and is very proactive in his general approach. As part of a team, Cpl Fernandez shows his strong character and his leadership skills. He is happy to lead and comfortable with additional responsibility.