PERSONAL DETAILS

Address: Qatar Energy compound
DUKHAN

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PERSONAL PROFILE

Electronic Engineer with 13 years' experience in the design of power generation, control and monitor test system for the aerospace and defence industry.
Areas of expertise:
Includes:
Architect level of test system design, electronic design, and fault diagnostic of complex anologue and digital control and monitoring circuits.

Hardware and software integration with good record of bringing automated test systems from development to production.

Expert level understanding of civil and military complex Electrical Power Generation and Distribution (DC, VF AC, HVDC).

Confident at driving continuous improvement task using lean six sigma tools.

EMPLOYMENT/WORK EXPERIENCE

Date: October 2019-Nov 2021 **Organization**: MBDA missile systems
Stevenage (UK)

Job Title: Project lead MBDA Missile Test System Design Engineer (Contract)
Job Description:
Design proving support for MBDA missiles actuation system.

- Create engineering drawings and wiring schematics for the design and build of MBDA test systems.
- Plan work, cost of Test equipment and resource needed to support the delivery of the test system.
- Support design proving and qualification of MBDA actuator motor drive units
- Diagnose and fault finding of power control and motor electronic unit
- Lead test equipment design improvement by replacing mechanic switches with solid state relays.
- Lead the improvement of method to design product with good signal integrity to avoid spurious fault during product acceptance test.
- Ensure that a robust change management system is in place for all phases of the test system design project.
- Support the writing of the Commissioning of new test equipment

Date: May 2017-August 2019 **Organization:** GE Aviation systems
Cheltenham (UK)

Job Title: Project lead F-35 Test System Design Engineer (Contract)

Job Description:
Test system design for F-35 joint strike fighter Power Distribution systems.

- Automated Electrical and Mechanical design
- Create composite drawings for various test systems, looms and test fixtures
- Produce FMECA and root cause analysis for the automated test system
- Fault finding F-35 High voltage power distributions Line replacement unit.
- Introduction of self-test for the automated test equipment and interface test adaptors
- Introduction of LRU functional area diagnostic during acceptance test procedure
- Technical support during hardware and software integration for new product introduction.

Date: December 2016 –May 2017 **Organization:** UTC Aerospace Systems
Hemel Hempstead (UK)

Job Title: Lead Test Technical Engineer
Job Description:
My role includes:

- Leading internal and external stakeholders in the development of Automated Test Equipment and test fixtures.
- Capture product acceptance test to produce test equipment requirement
- Requirement traceability to link test equipment, test software specifications and UUT test requirement definition.
- Assist test development and commissioning team during ATE and test fixture preliminary design and critical design review.
- Drive continuous improve using lean tool such FMECA, lean sigma tool kit, value stream mapping and root cause analysis:

    - Successfully improved test method measurement for noise sensitive small signal. This has improved production throughput by reducing the number of retests of false fail.

Date: April 2013 –December 2016 **Organization:** SAFRAN Electrical and Power,
Pitstone (UK)

Job Title: Senior Specialist Test equipment and process Engineer
Job Description:

- Create Functional test solutions including test hardware design, and generation of test software for the BELL-525 generator control and power distribution systems.
- I successfully designed test systems to carry out environmental and system test for the BELL 525 DC power distribution unit and delivered on time and on budget.
- Mapped process of selecting and evaluating new PCB manufacturer and automated test equipment for SAFRAN Electrical and Power systems.
- Issued test strategy document to standardise test equipment design process.
- Write board and unit level test requirement document for various Power distribution and control unit such as Falcon 7X, Sikorsky CH53-K and A380 Ground generator control unit.

- Drive continuous improvement across manufacturing Using LEAN processes this has led to:
    - Introduction of DITMCO wiring analyser to reduce a manual test, which was taking three days down to forty minutes.
    - Introduction Boundary scan (Cascon Goepel) to improve board test coverage, fault diagnosis, test time and test fixture complexity.

Date: Sept 2008 –April 2013 **Organization:** Goodrich Electrical Power Systems, Buckinghamshire (UK)

Job Title: Project lead CH-53K Test System Design Engineer
Job Description:

- Design and commissioning of board level automatic test equipment for the CH53-K power distributions line replacement unit for Sikorsky helicopter.
- Electronic circuit simulation and analysis
- Design and build supplementary test circuits for control protection and Built-In Test functions
- Generation of data packs for design reviews
- Creation of manufacturing data packs
- Board bring up and validation testing of analogue and digital electronics designs.
- Support to integration and unit level testing.
- Support to reviews at all levels of the design, development and testing of the unit.

EDUCATION

2014 – 2016 MSc Engineering and Management of Manufacturing Systems
Cranfield University, UK

2004 – 2007 BSc (Hons) Electronic Systems
University of Westminster, London UK

ADDITIONAL SKILLS

Microsoft suit skill: Word, Excel, Microsoft Project, and Power Point
Programming Language: National Instruments Labview, Python and C++
CAD tools: AutoCAD Electrical and MS Visio
Electronic simulation software: Pspice and Zuken
Software change and configuration: Dimensions CM
Product Lifecycle Management: PTC WINDCHILL/Creo, Cimage
Communication protocol: RS422, RS485, MODBUS, ARINC and AFDX