**Michael Fairey Electronics Design Engineer**

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Analytical and performance driven electronic design and embedded system designer with extensive experience in PCB design, electrical engineering, and project management. Solid history of success in performing electrical installation, inspection, testing, and design reviews while adhering to health and safety guidelines as well as European automotive and EMC standards. Expertise in electrical and mechanical equipment design and maintenance, electrical site controllership, project cost estimation, risk mitigation, accident or incident investigation, and stakeholder engagement. Proven track record of excellence in leading electrical design projects from start to end, preparing strategic plans and control structures, and ensuring successful delivery within time and budget. ***Areas of Expertise include:***

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| --- | --- | --- |
| * Electrical Design Engineering * Innovation & Concept Development * Electrical Testing & Commissioning * Continuous Process Improvement * Electrical System Design | * Quality Assurance & Control * Health & Safety Compliance * Risk Assessment & Mitigation * Cross-team Collaboration * Team Training & Leadership | * Product Design & Development * Circuit Analysis & Design * Regulatory Compliance * Electrical Site Management * Relationship Building |

**Professional Experience**

**FAIREY ENTERPRISES LTD – ELECTRONIC DESIGN ENGINEERING CONSULTANCY** • York, UK • 2019 to Present

**Contract Electronics Design Engineer | Director**

Spearhead various electronic design projects from start to end, ensuring successful delivery within time and budget. Create and maintain innovative PCB designs by utilising Altium Designer. To create a winning CV for you I need more information about your day-to-day activities and responsibilities. Please share your daily job description to enlist here?

**Key Accomplishments:**

* Developed and implemented LoRa wireless and Bluetooth connected street lighting control system using an NXP Cortex-M3 Microcontroller and POE powered and ethernet controlled LED mood-lighting project for leisure industry.
* Designed, developed, and executed innovative electrical solutions to unreliability of NXP microcontroller start-up.
* Formulated and delivered PoE LED mood lighting products.

**ECCO SAFETY GROUP (AUTOMOTIVE SAFETY EQUIPMENT MANUFACTURER)** • Leeds, UK • 2015 to 2019

**Electronics Design Engineer**

Devised new LED beacon and siren products for automotive safety market while ensuring compliance with automotive standards. Utilised LTSpice simulation software and Altium Designer, creating schematic capture and PCB layout design for the development circuit. Produced C and C++ firmware for test and production of equipment, which contained embedded Microchip PIC, Atmel, and NXP Microcontrollers. Conducted standards testing for Reg 10, Reg 65, EMC, and CISPR 25.

**Key Accomplishments:**

* Secured major cost savings and decreased EMC emissions through the creation of several low-cost LED automotive beacons.
* Led the design, development, and delivery of products suitable for mass production with a wide operational range of temperature and conditions by collaborating with mechanical and optical design engineers, environmental test chambers, and external test houses.

**Fairey Consulting – IT and Electronics Consultancy** • Wetherby, UK • 2002 to 2015

**Proprietor**

Provided technical support to various small and medium-sized companies, such as system repair and maintenance to ensure end-to-end smooth running of business. Headed and completed microcontroller based projects by using Intel, Microchip, and Atmel devices, such as temperature sensing, data-logging, DesignSpark CAD, and Eagle

**Key Accomplishments:**

* Established and oversaw IT business, delivering IT system installation and maintenance services.
* Developed and managed bespoke database systems for numerous customers.

**Additional experience:**

**Trainer | Client Technical Interface | Product Specialist | Presenter** at Shopcreator Developments Ltd, Tadcaster, UK

**Managing Director** Boston Spa Computers, Wetherby, UK

**Managing Director | Technical** **Director** at Salespoint Automation Limited, Wetherby, UK

**Engineering Director** at Cashwise International, Leeds, UK

**Joint Managing Director** at Cashcare Terminals, Location

**Hardware Manager** at Quality Systems International, Location

**Chief Engineer** at Fieth Limited, Location

**Test Engineer | Field Service Engineer** at Real-Time Computer Systems, Location

**Electronics Engineer** at Electronic Supplies and Services Alarm systems and security, Muscat, Sultanate of Oman

**Integrate Circuit Designer** at Ferranti Electronic Components Division, Manchester, UK

**MOD Procurement Executive** at Royal Aircraft Establishment, Location

**Education & Training**

**Full Name of Degree [(Master) (Bachelor) of Xxxxxxxx in Xxxxxxxx] |** University | Location | Date (if within 7-10 years)

**Professional Development**

City & Guilds Full Technological Certificate – Level 5 | Farnborough Technical College, Farnborough, Hampshire

4 Year Electronics Craft Apprenticeship, Royal Aircraft Establishment, Farnborough, Hampshire

Various courses, including Microsoft NT4, Web design, and Altium

Diploma – Durham University in Theology and Ministry

Ordained Priest in the Church of England – Non-Stipendiary

**Technical Proficiencies**

LTSpice Simulation Software | PCB Design-Altium Designer | C, C++, VBA, Assembler | 3D CAD-OnShape, CADKEY, DesignSpark Mechanical, SolidWorks | SMD Manual Assembly and Soldering

**Volunteer:** Church Ministry |Round Table | Rotary International