

Dean Hayden

Design & Development Engineer- IEng MIMechE.

Seeking new opportunities

Commutable 1 Hr from

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PROFESSIONAL PROFILE

A highly knowledgeable Design and Development Engineer with hands on experience in all areas of Design and Manufacture, within the UK, Far East, worldwide. I have been an integral part of highly productive and successful teams. Successfully taking a variety of both mechanical and electro mechanical products from concept through to production. I have also taking the lead in CPD projects ensuring that targets and timescales were met.

Throughout my career I have been right at the coal face during each phase of the Design and Manufacture cycle. From designing the products, material selection, DVT, optimizing NPI processes to helping manufacturers and suppliers both on the ground and remotely, setting and optimizing production lines - processes. Plastic injection moulding - standard and technical high glass content polymers (bead and strand), elastomers, Zinc die casting, stamping, CNC, sealing solutions and varied aesthetic finishing processes.

My skill sets are broad, I have experience in QA, PE and SC. I am also a pragmatic, resourceful problem solver with an eye for detail. A high EQ plus knowledge and experience ensure good working relationships, respect and trust. Team play, collaboration and integrity. I try to apply the simplest, and most effective, efficient solutions/suggestions to everything I do. Whether it be a design, an NPI or a production process.

Cad systems :- Autocad, SDRC, NX11, Inventor and solid works

Strong in DFA, DFM, DVT, RP, DFMEA, PFMEAs, Produce good 3D data for tooling and 2D drawings.

ISO 9001, reviewing and improving processes and procedures. ECR, PPAP.

"I'm seeking a long-term commitment with a forward-thinking company. If of interest feel free to call, I am open to any opportunities where my experience and skill sets may be utilized"

I am a very honest, loyal and have a sense of humour and am always willing to go that extra mile.

* EXPERIENCE

Paxton Products

Product Support Engineer - Contract role

Providing product support for a complex electro mechanical product, containing 130 parts, already 2 years in development. An integral team member with the required skills to help ensure a successful move into pre-production and production with our sub-contractor in Taiwan.

My role was to improve and resolve design issues related to poor DFM, DFA through both design and process improvements. Ensuring a strong honest link with our sub-contractor and building a partnership for both current and future projects.

May 2017 –
August 2017

Sharing my knowledge and experience with all parties. Moving the product and project forward. New NPI process introduction, drawing schemes, FA reports, QC. Process capability. Invoking good working practices across all areas, plus supporting Junior designers working on other projects.

February 2017 to
May 2017

GTech – Cordless Vacuum – E bikes

NPI Engineer - Contract 3 month fixed Contract

NPI Support Engineer - "3-month contract to support, advise and share my experience/knowledge with GTECH for a new and innovative product"

Communicating with project managers, Sharing my Design and Manufacture knowledge and experience, plus learning from them. Acting as an external advisory to evaluate and help improve, fill in any missing gaps.

Design advice. DFM, DVT, initiate UK/USA and Canada Certification and Approval requirements & research with Intertek Milton Keynes, Product costing. Investigate alternative Manufacturing methods, Material Selection. Far East manufacture, brainstorming sessions, supporting junior designers with designs and upskilling in areas like plastic injection moulding, ultrasonic welding, 2D drawing schemes that the Far east will understand, enabling high quality FA reports and ongoing Process control (CTQ's - PS). ECR management discussions.

Extended contract requested by my Technical Director - Paul Pickford, I reluctantly declined due to family commitments back home in Kent.

Paul has kindly offered to be one of my 2 references.

October 2014 to
November 2016

Crosswater Group

Mechanical Design Engineer

I played a key part in the creation of Crosswater's Research and Development department. Being the first designer to join; I aided in further recruitment and helped in the set up of CAD, a lab and workshop.

I was part of a five-man R&D / Engineering team, covering all aspects of new product design and development including. Design, compliance, supply chain management, production engineering and QA.

Our task was to bring a new range of Innovative and highly reliable electro mechanical digital showers of the highest calibre to the market. Within an aggressive timeframe and budget.

We successfully delivered 6 new digital processor platforms; both high and low water pressure, plus shower controllers of various styles and functionality, in under 2 years. The products contain around 50 new plastic injection moulded parts; from ABS to 35% glass filled engineering polymers, castings, CNC parts, elastomers and bought in items.

We designed all product packaging, installation instructions, user guides and ensured the products met all the relevant water and electrical approvals and standards.

My role required me to utilize all of my various skills sets and previous experience to the fullest. From designing the products - concept to completion. Project management, ongoing Development, Production engineering, Quality assurance, purchasing and the close management and training of our Far East manufacturer and their sub tier suppliers such as toolmakers, moulders, test equipment and jigs and fixtures.

MAY 2008–
OCTOBER 2014

Aqualisa Products Limited

Senior Mechanical Design Engineer

New design generation and product development.

Design advisory to current projects. Managing Far East manufacturers.

New product implementation and core product cost down and reliability improvements

Development of engineering processes, R&D, QA, Supply, Sub contractors. Providing input for continuous improvement.

Generating and analyzing data, providing root cause identification. Implementing and managing improvements.

SEPTEMBER 1998–
MAY 2008

Aqualisa Products Limited

Mechanical Design Engineer

An essential requirement of my job is the ability to work as part of a team comprised of in house groups such as; marketing, production engineering and QA as well as external groups including; Design consultants, tool makers, plastic injection moulders and subcontractors in both Europe and the Far East, plus customers in the US.

I am proficient in a wide range of technologies such as; rapid prototyping, FEA and techniques such as; DFA, DFMEA, PFMEAs, Quality assurance, Production engineering together with the ability to produce high quality 3D data for tooling as well as 2D drawings with appropriate dimensioning schemes.

I am a strong team player who has played a key part in many successful high profile NPD and CPD projects. My career path has given me an excellent appreciation and understanding of a profitable and innovative market driven company in all areas.

SEPTEMBER 1992 -
SEPTEMBER 1998

Aqualisa Products Limited

Development Technician

Responsible for supporting design engineers along with varied production projects, providing: - advisory evaluations and recommendations. report writing. model making. Testing, designing and making jigs and fixtures for various products. My time as a development Technician gave me both good practical and theoretical skills, the skills acquired are invaluable as a competent engineer today.

Skills :-

New Product Design and Development - Product Development - Design for Manufacture – Design for Assembly -3D CAD- Mechanical Engineering - Injection Molding, casting - Injection Molding, casting, Stamping, elastomers, sealing solutions, CNC, plating and coatings - Manufacturing Engineering – Jigs and fixtures – testing – Training - Quality Assurance ISO 9001, ECR, PPAP – Process and procedure improvements - DFMEA/PFMEA - GD&T - Team Building - Far East sourcing - Far East Manufacture – Negotiation - Problem solving

***EDUCATION**

- IEng MIMechE
- Mechanical HNC
- 4-year Engineering apprenticeship
- 5 GCSE's grade C or above

*Smallpiece training: - Design for cost/Design for manufacture and assembly/Concept generation/BS888 Geometric tolerancing and dimensioning/PPAP/Root cause Analysis/Problem solving/Project management.

*3D Cad systems – Autodesk Inventor-Solidworks-NX Unigraphics-SDRC Ideas -AutoCad 2D

Certifications

Mechanical HNC - IEng MIMechE - Smallpiece Trust Engineering courses

Hobbies and Interests

Mountain biking, reading, 5 a side football, Countryside walks with our rescue dogs, Clay pigeon shooting

References

Glenn Porter (Former technical director at both Aqualisa and Crosswater) **01795 886434/07730457440**

Glenn.porter67@hotmail.co.uk

Paul Pickford (Gtech Technical Director) - 0777 5588427

Paul.pickford@gtech.co.uk

