

PERSONAL PROFILE

Name: Kev Parkin



Contact Information:

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Recent Career Record:

1999 – Date AlphaWave Technology Limited.

Position Held: *Owner/Director and Design Consultant.*

Overview:

Experienced in product, special purpose machinery and injection mould tooling design and development, project planning, management and budget control with a good working knowledge of production engineering in both high and low volume markets.

Experienced within the following market sectors:

- Packaging (Structural and Flexible)
- Pharmaceutical (Product and SPM)
- Cryogenics
- Currency Recognition (Bills)
- Medical (Product)
- Laboratory Systems
- Lighting (Product)
- Marine
- Consumer Products
- Industrial Products

Experienced user of 3D CAD, Graphics (Adobe CS4 applications) and Office (Microsoft) software as well as CAD system management and training.

Now specialising in the use of SolidWorks, this was purchased after completion of training in 1998. Currently running the latest version of SolidWorks.

Duties and Responsibilities:

- At Company level, responsible for the efficient administration of a company, particularly regarding ensuring compliance with statutory and regulatory requirements and for ensuring that decisions of the board of directors are implemented.
- To provide a resource to our clients for specialist skills including expertise in design, innovation, branding, tooling, engineering, product & process evaluation, project management, training and trouble-shooting.
- To provide a cost effective “pop up design department” for clients as and when required – offering all the benefits of an in house” resource – but with cost saving benefits.
- To streamline our client’s design process to achieve effective cost savings due to complexity reduction.
- To utilize state of the art CAD systems to optimize the design process and exploit time compression technologies to produce realistic models and prototypes in days to result in smarter decisions and shorter tooling lead times that can slash the time to bring the product to market.
- To offer our clients a value engineering (VE) service to obtain optimum value by providing the necessary function at the lowest life cycle cost without sacrificing quality, aesthetics, operation, or maintenance capabilities.
- To provide our clients market research and organize focus groups to develop a strategic brand and to forecast the impact that implementing new products, technologies and designs will have.

Training and Courses Attended:

DATE	COURSE	DURATION	REMARKS
1998	Solidworks CAD	3 days	Bristol

Previous Career Record:

1988 – 1999 Unilever (DiverseyLever, Lever Industrial, Jeyes Hygiene).

Position Held: *DiverseyLever: Design Manager (1997 to 1999).*
Lever Industrial: Design Manager (1992 to 1997).

Reporting to: *The Technical Director.*

Overview:

Responsible for the management of all aspects of the design process and to provide leadership and guidance to subordinates, to manage local, international design projects and maintain budgetary control. Key achievements include the selection and implementation of the **EUCLID** 3D CAD system resulting in productivity gains and project lead times being compressed. Also, a member of, and Manager of international design project teams, responsible for bringing projects such as the **Leverline** range of personal care products and **COMPAC** detergent dosing system in on time, in budget and to specification. Also responsible for the conceptual design and specification of the **ERGODISC** range of single disc floor cleaning machines.

At the end of 1998 Unilever closed the High Wycombe operating company and all design functions were transferred to a sister company in Switzerland and all manufacturing was transferred to 3rd parties. During this transition my responsibilities were to maintain manufacturing processes by the efficient management of all design related technical and engineering issues and the transfer of specifications and technologies to Switzerland and 3rd party companies.

Duties and Responsibilities:

- To provide expertise with respect to equipment design and styling from concept to delivery and to ensure corporate identity and livery are propagated through all products.
- Responsible for all aspects of the specification relating to equipment design, materials, components and tooling and ensure compliance with internal, national and international standards.
- To produce and be responsible for all aspects of injection mould tool design and development including the specification of any additional ancillary equipment required to ensure manufacturing capacity is maintained.
- To design and implement a corporate tooling specification to standardize the design, manufacture and maintenance of both in house and 3rd party tooling.
- Provide leadership and guidance to your team of Design Engineers (4) and ensure that organisational and staff matters are handled effectively and that the company appraisal process is implemented and a staff development program (continuous Improvement) is implemented.
- Prepare and review operating plans, budgets and capital expenditure proposals and liaise with the Operations Manager in order to maintain compliance with budgetary limitations in all relevant departments.
- Responsible to produce specified schemes and detailed drawings to meet the required marketing briefs, national and international standards.
- Responsible for the management of local and international design teams and to ensure that marketing briefs, specifications, time-scales and capital expenditure budgets are met.
- To be responsible for innovation and new concepts through the awareness of up to date technology, by the evaluation of competitors and factored goods, current marketing trends and environmental thinking.
- Responsible for the estimation of component costs, tooling costs, time-scales and added value to ensure that new design projects are commercially viable.
- Be aware of all on-going design and development projects and to provide technical support to other members of the design and development team where design expertise is required.
- Responsible for the sourcing and procurement of all design office equipment and stationery.
- Responsible for technical support to the other senior engineers and all other departments.
- Responsible for the introduction, change and deletion of parts.
- Responsible for the Liaison with customers for all technical enquiries.

Position Held: *Jeyes Hygiene: Senior Designer (1988 to 1992).*

Reporting to: *The Technical Services Manager.*

Overview:

Responsible for all aspects of the specification of part design, materials, components and tooling and to provide technical expertise to production for plastic injection moulding. Key achievements include product designs that embody unique selling points, the introduction of the **CINPRES** gas injection process and **PHASA** materials joining process and tooling designs that incorporate novel manufacturing and assembly techniques thus reducing production costs, shortening lead times whilst at the same time maintaining quality.

Duties and Responsibilities:

- Responsible for all aspects of the specification in plastic part design, materials, components and tooling.
- Responsible for design expertise with respect to component design, styling, manufacture and assembly.
- To produce and be responsible for injection mould tool design for in house manufacture and production.
- To be responsible for the sourcing of all plastic mould tooling designed and manufactured by third party toolmakers.
- To be responsible for the production of specified schemes and detailed drawings to meet the required marketing briefs, national and international standards.
- To be responsible for the management of specified design projects from concept to production and to ensure that marketing briefs, specifications, timescales and capital expenditure budgets are met.
- To be responsible for innovation and new concepts through the awareness of up to date technology, by the evaluation of competitors and factored goods, current marketing trends and environmental thinking.
- To be responsible for the estimation of component costs, tooling costs, time scales and added values to ensure that new design projects are financially viable.
- To be responsible for the day to day decision making of the department in association with plastic parts, materials, tooling and processing.

- To be aware of all ongoing design and development projects and to provide technical support to other members of the design and development team where plastics expertise is required.
- To be responsible for the sourcing and procurement of all drawing office equipment and stationery.
- To be responsible for technical support to the senior engineers and all other departments advising on the suitability of materials, processing, manufacture, assembly and storage of plastic parts and tooling.
- To support the Technical Services Manager in providing the technical expertise in the plastics engineering required to meet company product specifications.
- To be responsible for the introduction, change and deletion of parts into the production system and to ensure where possible that all new parts are interchangeable with old and that all drawing office systems are maintained and comply with BS5750.
- To promote good working relationships between technical services and other departments and to ensure that good routes of communication are maintained.

Training and Courses Attended:

DATE	COURSE	DURATION	REMARKS
1988	Introduction to Hard surface Cleaning	3 days	Internal
1989	Management Training (Ed O'Sullivan)	2 weeks	Ed O'Sullivan
1990	Financial Training	1 week	Ed O'Sullivan
1992	Team Building	2 days	Ed O'Sullivan
	CAD EUCLID Solids 1	1 week	Matra Datavision
	CAD EUCLID Solids 2	1 week	Matra Datavision
	CAD EUCLID Surfaces	3 days	Matra Datavision
1993	Simply the Best "Team building"	3 days	Ed O'Sullivan
1994	Project Management	1 day	Fred Pryor
1995	Management Problems of The Technical Person in A Leadership Role	1 day	Fred Pryor
1996	Aggregate Project Planning	1 day	Lever Industrial International
1997	Teamworking	1 day	Brittain Associates
1998	The Innovation Funnel	3 days	Unilever

Hozelock-ASL 1986 - 1988.

Position Held: *Design Engineer*
Reporting to: *The Design Manager.*

My key achievements include the conceptual design of the **Cascade** range of modular pumps and filters and the design of the **System 2** range of hose end fittings, where improved reliability and profit margin were achieved by the novel use of materials, design for manufacture, novel assembly techniques and tooling design.

Duties and Responsibilities:

- Product design & development.
- Manufacture & testing of prototypes & models.
- Determination of product specifications, operating parameters test methods and test procedures.
- Design & manufacture of test equipment.
- Product costing.

Training and Courses Attended:

DATE	COURSE	DURATION	REMARKS
1986	Ultrasonic Welding of Plastics	1 day	Kerry Ultrasonics
1987	Statistical Process Control	2 days	SPC Ltd
1988	Failure Mode & Effect Analysis	2 days	SPC Ltd

Paragon Plastics 1978 - 1986.

Position Held: *Design Engineer (1982 to 1986)*

Reporting To: *The Technical Director*

Duties and Responsibilities:

- The design and development of new and existing products in accordance with the relevant British Standards
- The design and development of injection mould tools and processes.
- The design and development of plastic extrusion dies and downstream calibration dies.
- The sourcing of injection mould tools from 3rd party toolmakers
- The design and development of Jigs, fixtures and bespoke downstream processing equipment.
- To set up & manage an internal calibration system for all test equipment in accordance with the company manual & BS 5750.
- To manage and maintain all drawing office records.
- To provide technical support to the Project Engineer with respect to plastic materials expertise and injection moulding process development and troubleshooting when new injection mould tools and extrusion dies are undergoing tool trials.
- To project manage on a day to day basis the new product design and development process'.
- To communicate all relevant new product information and product development details to relevant departments to ensure smooth implementation and transition is achieved.

Position Held: *Laboratory technician (1980 to 1982).*

Reporting to: *The Development Engineer.*

Duties and Responsibilities:

- To prepare test samples & carry out routine quality control testing and type testing of plastic pipes & fittings for building, drainage, chemical & potable water use in accordance with the relevant British & International standards.
- The manufacture of engineering prototypes & models & to design, develop & manufacture test equipment to evaluate the performance of the prototypes.
- To produce & rheologically test on laboratory equipment samples of development uPVC compounds.
- To produce 100kg sample batches of development uPVC compounds to test the compound under production conditions prior to the compound being adopted by production.

To measure and record:

- Impact resistance
- Tensile strength
- Deflection
- Thermal stability
- Chemical resistance
- Rheological properties

Position Held: *Laboratory Assistant (1978 to 1980).*

Reporting to: *The Development Engineer.*

Duties and Responsibilities:

- To prepare test samples & carry out routine quality control testing and type testing of plastic pipes & fittings for building, drainage, chemical & potable water use in accordance with the relevant British & International standards.
- To measure and record:
 - Impact resistance
 - Tensile strength
 - Deflection
 - Thermal stability
 - Chemical resistance
 - Rheological properties

Training and Courses Attended:

DATE	COURSE	DURATION	REMARKS
1996	Team working	1 day	Brittain Associates
	Aggregate Project Planning	1 day	Lever Industrial International
1994	Management Problems of The Technical Person in A Leadership Role	1 day	Fred Pryor
1993	"Simply the Best" Team Building	2 days	Ed O'Sullivan
1992	EUCLID CAD System Management	2 days	Matra Datavision
	EUCLID CAD Detail Design	3 days	
	EUCLID CAD Surface Modelling	3 days	
	EUCLID CAD Solid Modelling 1	1 week	
	EUCLID CAD Solid Modelling 2	1 week	
	Team Building	2 days	Ed O'Sullivan
1990	"Bean Counting" Financial Training	1 week	
1989	Management Training	2 weeks	
1988	Failure Mode & Effects Analysis	2 days	SPC LTD
	Statistical Process Control (SPC)	2 days	
1987	Ultrasonic Welding of Plastics	1 day	Kerry Ultrasonics
1982	Quality Control: Routine measurement and logging of dimensions of pipes and fittings with respect to the relevant British standards and the maintenance of records.	1 month	Paragon Plastics Limited Internal training course.
	Mechanical & Electrical Maintenance: Routine maintenance and breakdown of tools dies and machines. Fault finding and basic troubleshooting.	1 month	
	Tool room: Tool making, mould manufacture and repair, die manufacture, jig and fixture manufacture.	3 months	
	Polyolefin Extrusion: Machine setting, tool setting and troubleshooting.	1 month	
	uPVC Extrusion: Machine setting, tool setting and troubleshooting.	1 month	
	Injection Moulding: Machine setting, tool setting and troubleshooting.	3 months	
	Health and Safety: General introduction to mandatory regulations and laws.	1 month	
	Fabrication: Manufacture of plastic parts using various welding and forming techniques.	1 month	
1981	Production Planning: Principles of work loading, planning for moulding, extrusion, machine shop and assembly departments.	1 months	
	Production Engineering: Principles of laying out and balancing production lines, assembly methods and work flow.	2 months	
	Drawing Office: Component design, tool and die design, jig and fixture design and drawing office standards.	3 months	
	Machine Tool Setting: Setting of Turret and Capstan lathes.	1 month	
	Project Engineering: Testing and development of new injection moulds and extrusion dies and the evaluation of new materials and processes.	3 months	
	uPVC Compounding:	1 month	

	Weighing of ingredients, mixing, logging batch numbers and QA testing of mixes of 10 tonnes.		
1978	Plastics & Rubber Short Course	1 week	UMIST

Skills:

Computer:

Office Systems:

Experienced user of Microsoft Office suite, website design using Netobjects Fusion and e-mail, running Windows 10.

CAD Systems:

Experienced user of SolidWorks from 98+ version to current release – as well as being a SolidWorks Beta Tester, EUCLID up to version 3.2 including solid and Surface modelling, Solid Edge Version 7, AutoCAD 14, AutoCAD LT version 2, Turbocad Professional version 10, and ChoiceCAD version 2.50H.

Graphics Systems:

Experienced user of Adobe Design Premium CS4 including: Acrobat Pro, Dreamweaver, Flash, Illustrator, InDesign & Photoshop.

Engineering:

Product - Design of mouldings, castings, pressed and machined parts in the industrial, consumer, automotive, leisure, computing, structural packaging, telecommunications, cryogenics, marine, Pharmaceutical and medical environments.

Modelling and Prototypes - Working models, Stereo lithography, 3D printing, Rapid Prototyping and Rapid tooling.

Mechanisms - Including Gearing and Linkages.

Sheet Metal – Laser cut sheets, Spinnings and Pressing.

Test equipment - Electro-Mechanical, Hydraulic and Pneumatic.

Special Purpose Machinery - For Automotive, pharmaceutical and Process use.

Tool Design - Plastic Injection Moulds, Blow Moulds and Plastic Extrusion Dies.

Value Engineering - Optimisation and Re-engineering.

Technical Documentation - Bills of Material, Technical Manuals, Operating Instructions and Process Planning Documents.

Analysis - FMEA, Life Cycle, Ergonomic, FEA, Mouldflow, Design for manufacture/assembly/recycling and Value Engineering.

Production Engineering - KanBan, JIT, MRP and Cellular Manufacture.

Management:

Project Management (Both National and International)
 Design Management
 CAD System Management
 Budgetary Control
 Feasibility studies
 Management of a small business since October 1998.

Professional membership and Qualifications:

Previously Registered as an Incorporated Engineer (I.Eng).
 Previously a Member of the Institution of Engineering Designers (MIED).
 Previously a Member of the Institute of Packaging (M Inst. Pkg).

Gained an H.T.E.C (HNC) in Mechanical and Production Engineering at Doncaster College in 1983.

Personal Information:

Date of birth: 2nd July 1960, Married, two children.

Due to a rugby Injury to my leg and ankle I no longer drive**Interests:****Design and Technology:**

Taking things apart to see how they "tick" – and putting them back together without having any parts left (hopefully!).

SPORT:

I have been involved in sports since I was a child, I was awarded my school colours for playing and captaining the school rugby team at all age groups.

My other passion is Cycling and until retiring from competition I raced cross country at sports class level.

Since 2014 I've been tag rugby coach (voluntary) at John Hampden Primary School (Thame) where we have won many trophies.

Cycling:

Ex-mountain bike racer Sports Class and now cycle for leisure.

Rugby:

Awarded School Colours for captaining the rugby team at all age groups from year 7 to year 11 and School 1st XV from year 12 and 13.

Ex-1st team squad player, 2nd team captain, Development Squad Manager and Management Committee member at Chinnor RFC.

2014 – Date: Year 5 and Year 6 Coach of John Hampden Primary School Tag Rugby Team.

Date	TYPE	Requirement
2018	Certification	Updated DBS Check
06/2018	Certification	Safeguarding – Oxfordshire County Council – Oxfordshire Safeguarding Childrens Board

Year	Results
2014-2015	Runners Up Oxford City Tournament, Winners Oxfordshire Chairman's Cup
2015-2016	Winners Oxford City Tournament, Winners Oxfordshire Chairman's Cup, Took Part in National Tornado at Rugby School
2016-2017	
2017-2018	Winners Chinnor Tag Tournament, Winners Oxford City Tournament, Winners Oxfordshire Chairman's Cup
2018-2019	Winners, Oxford City Tournament, Runners Up Oxfordshire Chairman's Cup * Chinnor Tag Tournament did not take place.
2019-2020	Watch this space!

Angling:

Ex Committee member and Team Angler at Doncaster Angling Association.
Now fish for leisure on the River Thame.

References:

References can be provided on request.

Portfolio:

Please go to: <http://www.awtltd.co.uk/portfolio.html>