

John Cobb (Security clearance previously held until 2020)

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PROFILE

An experienced Mechanical Design Engineer with diverse expertise of Design, 3D modelling and development of special purpose machinery and process plant for various sectors including: Defence, Aerospace, Nuclear, Food/Beverage, Electronic/Mechanical Manufacturing, Petro-Chemical, Automotive.

KEY ACHIEVEMENTS

- 1 Responsible for critical design and development of high value complex special purpose machinery, which increased film production by 600% through innovative approach, achieved a concurrent cycle time reduction and capacity increase
- 2 Successfully 'designed in' manufacturing efficiencies in the form of 4 special purpose machines to achieve aggressive build plan producing a much improved assembly time
- 3 Ensured build of project critical assembly roofing system, for prestigious Welsh National Assembly building through 3D modelling of assembly parts
- 4 Intensively trained in use of Inventor and Mechanical Desktop by Autodesk Authorised Consultant
- 5 Practical design experience of utilising Inventor, Mechanical Desktop, AutoCAD, RoboCAD, etc
- 6 Licence holder for Inventor (current release) & AutoCAD with suitably specified workstations

Please see my web site: www.inventor-3d-design.co.uk

EMPLOYMENT HISTORY

Modelling specialist

2015 - Current Tetronics Ltd

Design Engineer [Contract – 6 months+]

Design work on a new production line to extract precious metals from catalytic convertors, using plasma technology

Design Package: Inventor 2015 using vault (own licence on site)

2013 to 2014 Dounreay Site Restoration Ltd

Design Engineer/Draughtsman [Contract – 1 yr 6 months]

Model & detail work including: extract ducting and special purpose processing equipment as part of the decommissioning of the nuclear power station

Design Package: Inventor *Professional 2014 using Vault*

2008

Dickinson Legg Ltd

Design Draughtsman [Contract – 6 months]

Design & detail of heavy duty process equipment for the primary tobacco industry - Inventor 2010

**2004 + (2005) Lakesmere Ltd
Mechanical Designer - 3D Modelling [2x Contracts – 8 months]**

Design of custom domed roof construction for prestigious National Assembly of Wales Building & wave form roof construction for Liverpool South Parkway station
3D modelling and detailing of tapered and compound curved standing seam roof and cladding
Modelling of 170m spinnaker tower at Portsmouth as double check on glazing specifications
Training of other engineers in the use of Inventor 3D Cad
Produced standard parts library and drawing border sheets
Design Package: Inventor 8/9 (own licence from my office & on site)

**2002 – 2003 Technicolor
Mechanical Design Engineer [Permanent]**

Conceptual design of high speed film elevator design
Development design of positive developing machine
Site survey and production of engineering drawings from conceptual 3D modelling
Design package: Inventor 7

**1999 – 2001 Design Facilities Ltd
Design Draughtsman [Contract – 1 yr 9 months]**

Created design and detail layout for 'Raw Caramel make up module' for Mars miniatures
Design of associated pressure vessels, heat exchangers, pump mountings, valves, process pipe work, flow plates etc
Design of Support Platform (9m x 11m x 2.4m) and associated foundations, stairways, handrails, Dairy silo air filter, steam and sprinkler pipe work
Integration and upgrading of modules with support platforms and in line with Mars directive
Design Package: AutoCAD 2000

**1995 – 1999 Technicolor
Mechanical Design Engineer [Permanent]**

Responsible for the Drawing office and contract draughtsman
Design of novel high speed panel printing machine
Redesign of industrial film developing equipment and conversion from gear drive to toothed belt drive for film printing machine. Created detailed design drawings of novel 65mm wide film format printing machine
Design of complex mechanisms and fabrications in steel, stainless or aluminium alloys
Design Package: AutoCAD R14, Mechanical Desktop

**1993 – 94 Crauford Engineering
Design Draughtsman [Contract – 1 yr 3 months]**

Design and detailing of Glycol Chiller Plant for the 'Bounty Line' at Mars Confectionery
Design of Process plant structure and layout – Pressure vessels, SP machinery, screw conveyors, jigs etc
Design Package: AutoCAD R12

**1993 Celltech Ltd
Design Draughtsman [Contract – 6 months]**

Design of new 2000litre fermentation suite plant
Design of process plant and layout P&ID's – pressure vessels, flow plates, trolleys etc
Design Package: AutoCAD R12

1992 – 93 **Design Facilities Ltd**
Design Draughtsman [Contract – 4 months]

1992 **Ferranti Sub Sea Ltd**
Design Draughtsman & Checker [Contract – 4 months]

1990 – 91 **Berkeley Design Ltd**
Draughtsman [Contract – 7 months]

1971 – 77 **Admiralty Compass Observatory**
Skilled Craftsman & Apprentice [6 years]

EDUCATION & TRAINING

HND Mechanical Engineering (with various distinctions)
Subsequently offered place on MSc Design of Machine Systems in 1981
Extensive Inventor tuition, City & Guilds AutoCAD 3D Wireframe

PERSONAL INFORMATION

Date of Birth: 18/07/55
Driving Licence: Full