

Job title:	CAD Design Engineer
Reporting to:	Product Delivery Manager
Pay level if applicable:	
Job location:	Melsonby, Richmond

Principle Responsibilities	<ul style="list-style-type: none"> ▪ Creation of Detailed 3D CAD Engineering Designs using Autodesk Inventor 2022 and associated Product Design Suite ▪ Use and Programming of Ilogic and other automated functions. ▪ Structural analysis using FEA simulations ▪ Provide BIM models and information packs for individual projects ▪ Develop, document and implement the relevant design Standards ▪ Produce Bills of Material in conjunction with the fabrication and assembly drawings
Key Tasks	<ul style="list-style-type: none"> ▪ Producing and Checking Precision Manufacturing Drawings for production by external suppliers. ▪ Produce detailed accurate Computer Aided Design of signs and parts for internal production / assembly . ▪ Work with Electrical Design Engineers to produce complete design package ▪ Production of Bills of Material in Excel, Drawing package ▪ Scheduling on time drawing completion ▪ Maintain CAD document archive and retrieval for projects ▪ Assist with Customisation of CAD Programs ▪ Production of BIM procedures, BIM models and information ▪ Production of drawings sets for product approvals. ▪ Conduct project related model reviews ▪ Clean up CAD files for project closeout ▪ Carry out structural analysis using FEA simulations ▪ Creation and Use of iLogic functions ▪ Oversee Product Life Cycle Management process in Vault ▪ Identifies and implements process improvement opportunities and contributes to a culture of continuous improvement. ▪ To ensure that any paper work is processed in accordance with the correct procedures and completed neatly and accurately and in a timely fashion ▪ The post holder must at all times carry out their responsibilities with due regard to the organisation's Equal Opportunities statement, and ensure all staff are treated fairly and evenly in

	<p>line with company policy.</p> <ul style="list-style-type: none"> ▪ The post holder must respect the confidentiality of data stored electronically and by other means in line with the Data Protection Act and with company policy. ▪ The post holder must accept responsibility for ensuring that the policies and procedures relating to Health & Safety in the workplace are adhered to at all times. ▪ To be fully aware of the company's customer care goals and portray the company in the best possible light through actions and attitude. ▪ To always be polite and courteous around customers, colleagues and the general public.
<p>Supporting Roles and Responsibilities</p>	<ul style="list-style-type: none"> ▪ Assist in the setting up of production packs. ▪ Assist with drawings for large on going projects. ▪ Liaising with our departments to improve drawing packs for Sales / Production.
<p>Skills & Experience</p>	<ul style="list-style-type: none"> ▪ A CAD Designer with extensive modelling and draughting experience to meet specification or achieve design direction. Minimum 5 years ▪ Minimum 3 years experience in the use of Autodesk Inventor ▪ Experience of producing manufacturing information and knowledge of Design for manufacturing techniques. ▪ Experience in working with ERP/PDM to control BOM and CAD interfaces and ensure version control ▪ Comprehensive working knowledge of Autodesk Vault Pro ▪ Previous experience working within an engineering / manufacturing business ▪ Experience in producing assembly drawings, layouts, scheme, part drawings, sheetmetal fabrication drawings ▪ Knowledge of manufacturing processes and design constraints (material, tolerance, process etc) would also be beneficial ▪ A detail focused individual with strong time management in the pursuit of deadlines ▪ Effective communicator internally who can work across various functions to ensure outcomes are achieved. ▪ Extensive working in knowledge in the use and programming of Ilogic and other automated functions. ▪ Working knowledge of structural designs and FEA analysis an advantage.

The above lists are intended to be neither exhaustive nor exclusive. Given the size of our company and the nature of our operations, it may be necessary from time to time for

personnel to step outside their defined role in order to address the immediate needs of the business.

Produced by Martin Bennett

Approved by

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