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AUTOMATION AND CONTROL, NETWORKING AND CYBER SECURITY, IIOT AND FACTORY 4.0 SPECIALIST CAD: 2D SCHEMATICS AND 3D SYSTEM DESIGN WITH SOLIDWORKS 3D AND ELECTRICAL

PERS	SONAL DETAILS
	REACH: Available UK and Europe DEGREE: First Class Batchelor of Engineering - Industrial Measurement and Control CHARTERSHIP: Chartered Engineer - IET (Under application) AVAILABILITY: On request
BA	ACKGROUND
	; manufacturing systems control and sensing; process control system design; esign and research; energy supply and smart energy management systems.
PRE\	VIOUS CLIENTS ————
• •	ation Systems, Agricultural and Horticultural Development Board, Honeywell, Proeon, S&H Systems.
	SCOPE ————
	systems integrators and engineering departments for the development of a wide on, control and local area network edge to cloud computing requirements.
cc	DNSULTANCY ————
Project / research and development;	Cyber security for IACS equipment;
Report writing (Basis of design documentation	, Industrial Internet of Things (IIoT) and Factory 4.0;
functional design specifications, sales brief);	Cloud integration and edge computing;
System architecture and design;	Artificial Intelligence and Machine Learning.
EN	NGINEERING ————

Systems configuration and programming (SCADA, PLC/DCS, Network, IIoT, sensors and actuators etc.);

Cloud and Local Area Networks server set-up and configuration (application servers, data servers, historians etc.);

Computer Aided Design (CAD): Solidworks 3D CAD, Solidworks Electrical and Solidworks PCB design & documentation, Process and Instrument Diagrams (P&ID, PFD), Electrical and electronic schematics (network design, control system design, panel design, PCB design), mechanical and hardware systems design.

Computer Aided Manufacturing (CAM): Solidworks CAM, CNC machining.

Example solution:

Client brief: Facility operators wish to improve system and operational efficiency, operator situational awareness and develop process optimisation techniques. Management want a real-time overview of process performance across assets and have the ability to provide feedback to increase product output.

Solution: Implement systems review and report findings. Design network architecture and 2/3D CAD, panel drawings etc. Create manufacturing, testing, installation and commissioning plan. Integrate additional wired and wireless sensor networks with existing systems.

Provide secure edge data visualisation dashboard for operations and local staff with built in real-time condition monitoring, machine learning and AI, from the existing and new sensors and systems.

Push data to the cloud to provide wider business dashboard overview and KPI across assets. Cloud based advanced machine learning and AI across assets for business optimisation and decision making.



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