CHUKWUDERA JUSTICE EGEMONYE
MEng

Inspection Engineer

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Chukwudera Egemonye is an Inspection Engineer specialising in the advanced application of Non-Destructive Testing (NDT). He holds a master's degree in Mechanical Engineering from the University of Liverpool and has obtained NDT Level 2 certifications from The British Institute of Non-Destructive Testing. His professional certifications include Eddy Current Testing of welds, Ultrasonic Testing of plate & pipe welds (3.1, 3.2), and Magnetic Particle Inspection. He has acquired considerable experience in Pulsed Eddy Current Array (PECA) testing of ferromagnetic materials as well as possessing extensive expertise in conducting corrosion mapping, analysis & evaluating the material state of ship structures and offshore assets.

Chukwudera has applied his technical expertise across a wide range of international projects, including complex assignments in South-East Asia, involving the investigation of welding defects on pipe penetrations during new-build construction. This work required detailed on-site assessment, independent third-party analysis, and the application of advanced non-destructive testing techniques to identify and characterise defects.

Following an extended period on site, Chukwudera produced an expert report based on his investigative findings. The report provided clear, technically robust evidence that was instrumental in resolving a disputed issue between stakeholders and was highly commended by the client for its clarity, depth of analysis, and practical value.

His experience extends to the utilisation of various specialised NDT systems: -

- Eddyfi LYFT
- LYFT Pro
- Sonatest Wave and GE USM GO+ UT flaw detectors
- Cygnus UTM gauges,
- Sonatest Veo3 PAUT Set

- Eddyfi Ectane
- Eddyfi Reddy
- Edyfi Magnifi
- Tube Pro
- CREO Parametric 3D modelling software
- CAD

Professional Qualifications

PCN Level II Ultrasonics (3.1, 3.2 Plate/Pipe Welds)
PCN Level II Eddy Current Inspection (Welds)
PCN Level II Magnetic Particle Inspection (Welds)
PECA LYFT Training and Certification
Dynamic Systems MATLAB
PTC Creo Software

Academic Qualifications

Bachelor of Engineering (BEng)
Masters of Engineering (MEng)

Surveying and Consultancy Experience

- Structural Integrity
- Fluid Mechanics
- Solid Structures
- Enterprise Studies
- Project Management
- Thermodynamics
- Dynamic Systems
- Aeroengines and Design
- Autonomous Robots
- Researching, coding and testing algorithms

NDT Experience

- UT Weld Inspection
- ET Methods (ECT, ECA, PECA)
- ECT Tubes HVAC Testing
- Corrosion Assessment and Modelling
- PECA CMAP