

**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 diverse range of global locations, showcasing his proficiency in the field through numerous PECA surveys of ships and eddy current testing of heat exchanger tube projects.

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

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