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### OCCUPATION

- Head of Department of Naval Architecture and Shipbuilding Engineering, ITS Surabaya.
- Senior Lecturer in the Department of Naval Architecture and Shipbuilding Engineering, ITS Surabaya;
- Consultant in Oil and Gas Industries, PT ITS Tekno Sains;
- Consultant in Shipbuilding Industries, PT ITS Kemitraan.

### EDUCATIONALS BACKGROUND

- 2003 (S3), Doctor of Philosophy in Marine Technology, Department of Marine Technology, the University of Newcastle upon Tyne, U.K.
- 1995 (S2), Master of Science in Marine Technology, Department of Marine Technology, the University of Newcastle upon Tyne, U.K.
- 1988 (S1), Sarjana / Insinyur Teknik Perkapalan (Naval Architect), Department of Shipbuilding Engineering, Institute Teknologi Sepuluh Nopember (ITS), Surabaya

### COURSES / TRAININGS

- 2003 Certificate in Naval Architecture, Faculty of Engineering, the University of Newcastle upon Tyne, U.K.
- 2006 Integrated Project Management Training, PROSYS Solution, Surabaya.
- 2010 ShipRight, Finite Element Model (FEM)-based software package for Ship Hull Design and Analysis, Lloyd Register Head Office, London

### INDUSTRIAL EXPERIENCES

- 2020 Project Manager, "Studi Desain Floating Hose Stabilizer dan Modifikasi Landing Boat pada SPM 165k DWT Proyek SPL/SPM RU VI Balongan", Direktorat MP2, PT Pertamina.
- 2019 Project Manager, "Feasibility Study and Design of Tender Assist Drilling Rig 750 HP", PT Pertamina Drilling Services;
- 2019 Project Manager, "Studi Penyusunan Technical Aspek Dalam Pembuatan Estimasi Biaya Pasca Operasi Fasilitas Minyak dan Gas Bumi di Lingkungan Direktorat Hulu PT Pertamina (Persero)", Direktorat Hulu, PT Pertamina.
- 2019 Project Manager, "Studi Teknis dan Ekonomis Pengadaan Harbour Tug dan Pemilihan Jenis Sistem Propulsi Untuk PT Pelabuhan Indonesia II (Persero)", PT Pelindo II.
- Project Manager, "Cost Estimation of Fishing Vessels 60 GT", Ministry of Maritime and Fisheries, Indonesia.
- 2018 Project Manager, "Potential Local Shipyards Capability, GAP Analysis and Improvement Study", PT Technip FMC.
- 2018 Project Manager, "Feasibility Study on Fast Cruising Reliability and Capability from Sorong to Tangguh LNG", BP Berau.
- 2018 Project Manager, "Towing Test of 100 Teus Container Ship Model", PT Daya Radar Utama.
- 2018 Project Manager, "Design, Layout and Detail Engineering Services for Samudera Madura Shipyard", PT Samudera Indonesia.

- 2017 Principal Engineer, "Feasibility Study Floating Barge Mounted Power Plant", PT Hexa Integra Electrica (HIRE)
- 2017 Principal Engineer, "Engineering Conversion for Research Vessel Baruna Jaya IV", PT Asmin Adisentosa
- 2017 Principal Engineer, "Ship Management Study for MT Antea", PT Pertamina Shipping (Persero)
- 2016 Project Manager, "Detail Design for Mini Submarine 22 Meter", Balitbang Kementerian Pertahanan RI.
- 2016 Project Manager, "Detail Design for Fish Carrier 600 GT and 900 GT", Kementerian RistekDikti RI.
- 2016 Project Manager, "Mooring Analysis & Structural Integrity SBM 1134 & 1146 Tanker Tandem Loading System", PT Adidaya Energy Mandiri.
- 2015 Project Manager, "Concept Design Study for Mini Submarine 28 Meter", Balitbang Kementerian Pertahanan RI.
- 2015 Project Manager, "Provision of Risk Assessment Study For Umbilical KRA South 2 Infill Project", Star Energy.
- 2015 Project Manager, "Technology and Operational Assessment Multi Colum Tension Lag Platform (MCT)", PT Pertamina (Persero), Direktorat Hulu.
- 2015 Project Manager, "Preparing Asset Register and PM Tug Boat in PT Badak NGL", PT Badak NGL Bontang.
- 2015 Project Manager, "Studi Kondisi FSO Cinta Natomas", JOB Pertamina – Petrochina Est Java.
- 2014 Project Manager, "Technical Investigation: Mooring Hawser Break at FSO Cinta Natomas", JOB Pertamina – Petrochina Est Java.
- 2014 Project Manager, "Study for Integrity and Safety for 8" and 10" CPA-Palang Pipeline", JOB Pertamina – Petrochina Est Java.
- 2014 Project Manager, "Abandonment Site Restoration (ASR) for Catalina Project", PT Pertamina (Persero), Direktorat Hulu.
- 2014 Lead Owner Surveyor, "New Building Supervision for 3200 KL SPOB", PT Dua Mitra Oil.
- 2014 Senior Naval Architect, "Desain Kapal Teras BRI", PT Dumas Tanjung Perak Surabaya.
- 2013 Lead Engineer, "Study for Development of Terminal Loading and Pipelines System for Transportation of Ethanol and Methanol from OSBL Piping Manifold to Terminal Loading in Balikpapan Bay", PT Pertamina (Persero), Direktorat Pengolahan.
- 2013 Project manager, "Concept Design and Detail Design for 10.000 DWT Self Propeller Urea Barge", PT Pupuk Sriwidjaya Palembang.
- 2013 Project Manager, "Acquisition of Harbor Tug Boat", PT Badak NGL.
- 2013 Project Manager, "Mooring Analysis for Cirebon Oil Barge Floating Storage", PT Pertamina EP Cirebon.
- 2013 Project Lead, "Study for FSO Mooring SPM Replacement", JOB Pertamina – Petrochina Est Java.
- 2013 Lead Engineer, "Preparing Front End Engineering Design (FEED) for Intalation Submarine Pipeline for Loading and Unloading at Terminal RU VI Balongan", PT Pertamina (Persero), Direktorat Pengolahan.
- 2012 Senior Engineer, "EPC for 10' Offshore Pipeline from Palang to FSO Cintana Tomas", PT Duta Marine.
- 2012 Senior Naval Architect, "Engineering Refurbishment FSO Kakap Natuna", PT Duta Marine.
- 2012 Lead Engineer, "Mooring Analysis of FSO Kakap Natuna", PT Duta Marine.
- 2012 Principal Investigator, "Asset Valuation for FSO Belida Project", BNI Sentra Kredit Menengah Melawai Jakarta.

2012 Project Manager, "16" Pipeline Reroute Selection Study", PHE West Madura Offshore.

2012 Senior Engineer, "Engineering Refurbishment of SBM for FSO Kakap Natuna", PT Duta Marine.

2012 Principal Engineer, "Mooring Analysis and Assessment of FSO at Widuri Field", CNOOC.

2011 Senior Naval Architect, "Basic Design for Self Propeller Urea Barge", PT Pusri Palembang.

2011 Senior Naval Architect, "Acquisition of Bucket Well Dredger", PT Timah Tbk.

2011 Principal Engineer, "Preliminary Fatigue Design Assessment for MT Concord; Tanker Conversion into FSO for Kodeco Project", PT Trada Maritime Tbk.

2011 Principal Investigator, "Price Valuation for FSO Brotojoyo", PT Berlian Laju Tanker Tbk.

2011 Lead Engineer, "Acquisition of Water Tractor Tug", PT Nusantara Regas.

2011 Lead Engineer, "Acquisition of 6000 m3 Ammoniac Tanker", PT Pusri Palembang.

2010 Lead Engineer, "Concept Design for Self propelled Urea Barge", PT Pusri Palembang.

2010 Senior Owner Surveyor, "FSO Lentera Bangsa Conversion in Cosco Shipyard (China)", PT Trada Maritime Tbk.

2010 Principal Engineer, "FSO Lentera Bangsa Conversion: Design and Engineering for Topside Modules Interfaces with the Vessel Hull".

2010 Lead Engineer, "FSO Lentera Bangsa Conversion: Hull Structure Analysis", PT Trada Maritime.

2010 Lead Engineer, "FSO Lentera Bangsa Conversion: Accomodation Design", PT Trada Maritime Tbk.

2010 Principal Investigator, "Price Valuation for MT Gas Bangka and MT Gas Bali", PT Berlian Laju Tanker Tbk.

2010 Project Manager, "Mooring Analysis & Structural Integrity SBM 1134 & 1146 Tanker Tandem Loading System", PT Adidaya Energy Mandiri

2009 Lead Engineer, "Acquisition of 4000 HP ASD Tug", PT Badak NGL.

2008 Lead Engineer, "Concept Design for 6000 m3 Ammoniac Tanker", PT Pusri Palembang.

2008 Project Manager, "Desain and Engineering for 6500 LTDW Product Tanker, MT Kambojang Pertamina", PT Dock dan Perkapalan Surabaya

2007 Lead Engineer, "Design and Engineering Conversion for MT Raissa Ayu: Single Hull Converted to Double Hull", PT Trada Maritime Tbk.

2007 Principal Engineer, "Preliminary Fatigue Design Assessment for MT Afroditi; Tanker conversion into FSO for CNOOC Project", PT Trada Maritime Tbk.

2007 Lead Engineer, "Design Self Propelled Oil Barge 599 DWT and 2000 DWT", PT AKR Corporindo Tbk.

2007 Senior Engineer, "Concept Design for 17500 LTDW Product Tanker Pertamina", PT Dok dan Perkapalan Surabaya.

2006 Principal Investigator, "Reliability and Integrity for Ardjuna Sakti Storage Barge Hull Structure, EMP Kangean Limited.

2005 Senior Engineer, "Design for 350 DWT and 900 DWT Passenger Cargo Ship", Minister of Transportation.

2005 Senior Engineer, "Design for 500 GT, 600 GT and 1000 GT Car Ferry", Minister of Transportation