



RÉSUMÉ AND CURRICULUM VITAE

PERSONAL DETAILS & QUALIFICATIONS

Name: Calum Tee
Position: Engineering Consultant
Nationality: British
Education: MSc Mechanical Engineering

EMPLOYMENT RECORD

2019 – Present *Argo Engineering Solution Ltd*, Engineering Consultant
2016 – 2019 *Technodyne International Ltd*, Mechanical Engineer
2013 – 2016 *Magma Structures Ltd*, Mechanical and Composite Engineer
2012 – 2013 *Shemara Refit LLP*, Mechanical Engineer
2011 – 2012 *Princess Yachts Ltd*, Metrologist

RÉSUMÉ

I am currently an Engineering Consultant at Argo Engineering. I have 8+ years' experience working in a range of roles specialised around the marine and petrochemical sector. I have been mostly involved in one-off projects which challenge the norms of understanding. Projects of this nature typically testing the limits of design codes, requiring a first principles design approach in tandem with detailed FE analysis and physical testing if needed.

The combination of the companies and projects I have been involved in give me a strong and varied foundation in engineering, from both a design office and a manufacturing/construction environment.

EXPERIENCE

Cryogenic and Low Temperature Liquid Hydrocarbon Storage Tanks.

Whilst employed at Technodyne, I carried out FE analysis to aid in my key tasks of engineering and designing critical steel and concrete structural elements, of flat bottom storage tanks in a whole array of different countries, ranging from 25m – 85m in diameter and 20m – 60m in height. Working to either European, American or local/regional design codes, I ensured that the components complied with pressure vessel, seismic or general structural building requirements.

World's Largest Composite Free-Standing Yacht Masts

While employed at Magma, I was a key member of the design team for the design and manufacture of 100m tall masts for Sail Yacht A, the largest sailing yacht in the world. My responsibilities included calculations for mechanical componentry integration into primary carbon / epoxy structures, FE analysis, production drawings and liaising/working alongside the production team. Writing the FAT procedures, maintenance and operational manuals. I also designed and oversaw the loading, shipping and unloading process for the masts.

65m Dynarig Yacht Masts

While employed at Magma I was also involved in the design and build of a 65m Dynarig mast project, for Sail Yacht Black Pearl. My role remained the same as that on Sail Yacht A's Mast's, with myself designing, overseeing and working with production staff for the integration of the mechanical componentry, both on the mast and in the vessel. I then went on to have a key role in designing, liaising and overseeing the loading, shipping, unloading and stepping of the masts.

1930's 65m Super Yacht Rebuild

While employed at Shemara Refit, I was responsible for designing and routing the vessel's piping and arranging the machinery. I liaised with the vessel's structural engineers and oversaw large aspects of the build to ensure that all equipment and piping were integrated successfully, as the vessel's 1930's design caused fundamental issues for integrated of modern systems. I wrote the ships mechanical systems testing and commissioning procedures, along with the operation and maintenance manuals.

Metrologist

While working at Princess Yachts, I operated a portable CMM device digitally scanning & surveying boat checking moulds and tooling equipment for their dimensional accuracy.

Professional Development

Master's Degree

As part of my professional development I have recently finished a part time MSc in Mechanical Engineering at Loughborough University.

Chartered Member of Institute of Mechanical Engineering (CEng MIMechE) Chair of the IMechE Southampton Area Committee

OUT OF WORK INTERESTS

My key out of work interest is currently spending time with my young family and getting outdoors as much as possible, particularly hiking in the local area.

To try and maintain an active lifestyle I enjoy cycling and running, taking part in several social riding and running events throughout the year.
