

Working at TPG Maritime: *Electrical Electronic Engineer profile*

TPG Maritime's atmosphere control systems enable people and systems to work safely for extended periods below sea, with each system bespoke to the customer's requirements. The complexity of each programme means that systems can take several years to complete.

Delivering the Electrical Electronic Engineer role

Ben's primary focus is developing the software that controls the combined oxygen generation system (COGS), from reading pressures to controlling the pumps, within each bespoke equipment. COGS incorporates both an electrolyser and a gas management system and is used on the UK's Royal Navy Astute and Vanguard classes of submarine.

Working closely with the project team, Ben is involved in multiple stages of a programme from the schematic drawings; simulation software to test, validate and iterate the control solution; component selection; the test & commissioning stage; through to further product development. Fault finding is very much part of the role and requires a quick response, with international travel involve should there be an issue on a customer site.

Said Ben: *"I'm invested in the work here as you get to see a really important piece of submarine kit develop from a design to working equipment – and know that you've played a part in achieving this. It's challenging and you need good analytical skills, to be able to communicate well at all levels, and have experience in PLC programming. I'm also enjoying the focus on Lean principles and the initial rollout of 5S – I've seen first-hand the benefits of an OBEYA room in quickly resolving issues within the project environment."*



Ben Sharley
Electrical Electronic Engineer

Ben started his career at TPG Maritime as an electrical technician apprentice over 9 years ago. Working across the various divisions including Wiring and Test & Commissioning, his career has progressed to taking on an electrical electronic role that involves a central role alongside the project teams to travelling internationally to support on customers' sites.

About TPG Maritime: We are a market leader in designing, developing, and manufacturing atmosphere management and life support systems for submarines and other critical applications. The company supplies equipment to naval fleets across the world. [Find out more](http://www.tpggroupglobal.com) about the roles available. www.tpggroupglobal.com