

Job Title	Embedded Software Engineer
<p>Job Overview</p> <p>FAZ Technology is the Fugro's center for optical R&D with primary offices in Dublin, Ireland and The Hague, Netherlands. We specialize in optical based sensing solutions for structural health monitoring in offshore and onshore applications. Recent projects include interfacing our optical products with cloud computing platforms and tunnel integrity monitoring. We are planning a new generation of optical interrogators using the i.MX 6 ARM modules offering an opportunity to gain excellent experience.</p> <p>Fugro Subsea Technologies (FST) is a strategic resource for Fugro providing a competitive edge by being a cost-effective source for in-house designed and built remotely operated underwater vehicle equipment (ROV), the continuous renewal of ROV assets as well as effective technical and spares support. The Development Group within FST designs and builds the electronics and software to control the ROVs and other subsea equipment and plays a major role in the development of new products and technologies used subsea. Recent projects include automated seismic node deployment using an ROV.</p> <p>In this embedded software engineering role, you may be assigned to work on the FAZ optical interrogators or the ROV embedded software depending on project priorities within Fugro.</p>	
<p>Key Accountabilities</p> <ul style="list-style-type: none"> • Identify and validate key software requirements through working closely with the relevant engineering teams • Implementation and test of embedded software to meet the technical requirements while ensuring compatibility with the existing systems. • Deliver the most essential product features at a pace that meets business demands whilst still maintaining product quality • Recommend and utilize best practices and tools for project execution • Collaborate with third-party vendors to evaluate SDKs (Software Development Kits) for the selected processor systems. • Prepare project reports and deliver presentations as necessary for project phase review meetings • Ensures project documents are complete, current, and stored appropriately • Ensure agile methods and SCRUM best practices are followed on a continuous basis. 	
<p>Qualifications Knowledge & Skills</p> <p>Essential:</p> <ul style="list-style-type: none"> • BSc in Electrical Engineering or Computer Science required, Master's preferred • A minimum of 4 years' post-graduate experience in an software engineering environment • Expert C & C++ coding and debugging skills. • Experience in eclipse, QT, Visual Studio and other IDEs • Design and implementation of software for real time embedded systems (Embedded Linux, NuttX RTOS). • Strong background in object oriented design and development • Working knowledge of Agile Planning and Estimating • Willingness to travel to customer sites as needed • Experience tracking and reporting agile metrics (e.g Burn-down charts, Velocity) 	

- Experience helping teams adopt Agile Practices such as continuous integration, test automation, Test Driven Development
- Excellent understanding of engineering design methodologies, the roles involved and how these roles are executed in the context of a project.
- Ability to work to pressurised deadlines while demonstrating a track record for innovation and creativity.

Desirable:

- Experience in developing software for microcontrollers based on the 32bit ARM RISC processors
- Knowledge of hardware (I/O control, AtoD, DtoA convertors, Control algorithms)
- Knowledge and experience of real time software interfaces such as (DDE, MQTT, XMPP services environments (HTTP/XML/REST)
- Experience in development of software for Automotive, Marine or Aerospace industries and the associated standards required in those disciplines

Interpersonal Skills:

The personal qualities of the jobholder will be key to success in this role. The following characteristics and qualities are identified as essential for the role:

- Logical approach to problem solving and an ability to break a problem down into manageable milestones.
- Ability to manage multiple tasks, to work independently in an organised manner.
- Effective communication of progress and obstacles for assigned tasks.
- Good interpersonal skills including a diplomatic and professional approach.
- A willingness to embrace change and an ability to implement new processes.
- The capability to work efficiently and accurately, with attention to detail, and the discipline to self-check results.
- Ability to write and converse clearly, concisely and confidently on technical problems, solutions and workarounds
- A good team player who uses initiative, is self-motivated and enthusiastic.