



About Flusso	<p>Flusso is developing and bringing to market sensor products built on patented silicon-MEMS sensing technology originally developed at Cambridge University.</p> <p>Using a unique combination of established silicon-MEMS fabrication and packaging processes, Flusso's technology platform enables sensor products with class-leading cost-performance and is ideal for monolithic, multi-sensor integration. It will open up new consumer and healthcare market opportunities for gas sensing and fluid flow measurement – ones that cannot be served cost-effectively by competing solutions.</p> <p>In March 2020 we moved to a combination of remote working and Covid-secure presence in the office and labs, which continues today. We adapted quickly to online collaboration, with daily engineering "stand-ups", monthly "all hands" and other online meetings to keep everyone informed, engaged and making progress in their work. Despite challenging circumstances our business has not just maintained but increased momentum.</p> <p>Flusso is an ambitious yet friendly start-up with an engineering team of nine, which we will increase by three in 2021.</p>
Purpose of the role	<p>The purpose of this role is creation of cost-effective sensor application solutions, validation test rigs and product demonstrators that</p> <ol style="list-style-type: none">1. Clearly demonstrate the value proposition of Flusso-based solutions;2. Lead to customer adoption of Flusso products (against competing solutions).
Level	Senior, with significant relevant experience
Reports to	Head of Systems and Applications



<p>Responsibilities</p>	<p>Flusso product demonstrators and validation</p> <ul style="list-style-type: none"> • Develop a thorough understanding of customer requirements for sensing solutions to meet their application needs; • Create application demonstrators for Flusso sensor products and solutions: <ul style="list-style-type: none"> ○ Designs that are proof of concept for production ○ Design and assembly of custom mechanical components ○ Implementation of PC software (Windows) to run the system ○ System integration: electro-mechanics, fluidics, electronics and software • Validate Flusso-based solutions for target applications with lab testing. • Produce associated product sales training material and application notes. <p>Customer evaluation and design-in support</p> <ul style="list-style-type: none"> • Acquire comprehensive understanding of customers’ specific application / use case requirements. • Assist customers during their evaluation of Flusso solutions; diagnose the root causes of any problems that arise and find practical solutions. • Work with customers’ engineering teams to devise end-product integration solutions that meet or exceed their specific application requirements. • Train distributor field application engineers (FAE’s) and provide design-in support to them when necessary. <p>Post-sales support</p> <ul style="list-style-type: none"> • Assist customers with the investigation of any issues that arise with Flusso-based solutions and help them move forward. <p>General</p> <ul style="list-style-type: none"> • Design and assemble custom fixtures for the test engineering group. • Contribute to program, project and sprint planning. • Contribute to the creation of Flusso IP. • Maintain personal tasks on a team JIRA board and schedule work in line with project plans, coordinated with the activity of colleagues. • Report personal task status and results in project team meetings.
<p>Accountabilities</p>	<ul style="list-style-type: none"> • Understanding of customer requirements and target applications. • Timely delivery of work into new product development projects; • High quality delivery of work across Systems and Applications. • Smooth progress and successful outcomes of customer evaluations. • Successful conversion of design-in opportunities with customers to design-wins.

<p>Key internal relationships</p>	<p>Product/marketing managers: for understanding of target applications, product use cases, customer needs and demonstrator requirements.</p> <p>Technical leads: for agreement of application engineering requirements and solutions.</p> <p>Hardware engineers: for collaboration on electronics design and prototyping for application demonstrators.</p> <p>Software engineers: for collaboration on application demonstrator firmware and host PC software.</p> <p>Project managers: for understanding of project plans, timescales and priorities.</p> <p>Test engineering: for specification and design of fixture solutions.</p>
<p>Key external relationships</p>	<p>Customers: to give assistance during product evaluations, capturing of application requirements and support during design-in activity.</p> <p>Prototyping/fabrication service providers, for rapid manufacturing of mechanical system components.</p> <p>CAD tool and cloud platform providers, to extract full value from licences and subscriptions.</p>
<p>Qualifications, knowledge, skills & experience</p>	<p>Bachelor's degree in a relevant Engineering or Science subject.</p> <p>Must be skilled and experienced in</p> <ul style="list-style-type: none"> • Electro-mechanical-fluidic system design • Mechanical design using Solidworks or a similar tool • Rapid prototyping using 3D printing, machining and other methods • Analogue and digital, board-level electronics design and debug (e.g. Raspberry PI or Arduino) • Software development to run demonstrators and test equipment <p>Knowledge and/or experience of these subjects would be an advantage</p> <ul style="list-style-type: none"> • Flow and gas sensing • Fluid dynamics – analytical methods, modelling and simulation • Silicon-MEMS technology and semiconductor/MEMS packaging • Experience in any of the following: Python, C, C++, C#, WPF, Labview

Profile	<p>Positive and enthusiastic by nature, responsive to changing needs of projects and the business.</p> <p>Good interpersonal, communication, and presentation skills.</p> <p>A creative problem solver who is able to create application solutions that meet customer needs.</p> <p>Someone with a pragmatic engineering perspective and solid theoretical foundations.</p> <p>Detail conscious and acutely aware of the importance of</p> <ul style="list-style-type: none">• Complete and well-defined requirements for system solutions• Careful management and control of design information <p>Inspires confidence in colleagues, partners and customers by virtue of domain knowledge, expertise and experience;</p> <p>Well-developed practical skills for system building and testing.</p> <p>Thorough and accurate in pursuit of high quality engineering solutions.</p> <p>Comfortable working in a fast-paced, start-up environment.</p>
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