Role:	**Systems Engineer – Software**
Reports to:	Director
Works with:	Company Directors, other engineers, customers, suppliers

Background to the role

About PTP:	PTP, a trading division of TestWorks Group Limited, is a growing development service provider specialising in the control, product development and test equipment market place. We develop customer projects both large and small; you get the chance to work on a wide variety of interesting developments. We have strength in PC development, such as C#, as well as in NI and Beckhoff product lines and more general embedded software and electronics development. You will find yourself applying a range of skills to the work you do, as variety is inherent in the job. Culturally, you'll find yourself part of a small, dynamic and friendly team who are passionate about what we do and take pride in delivering effective solutions for our customers.
	Our previous projects are many and varied and include racing car simulators, a maritime fibre optic repeater, control of several bespoke machine for markets including pharmaceutical, automotive and oil, as well as equipment to measure the quality of rail track or the effectiveness of fire warning systems.
What is the role?	The purpose of the role is to specify, design, implement and test solutions for our customers. This covers all aspects of the development lifecycle from requirements capture to commissioning.
	The role involves significant customer interaction and as such the System Engineer can often find themselves representing the company in discussions and during commissioning or helping prepare the technical aspects of a quote for the next piece of work.
Why does it exist?	The company is seeing increasing demand for it's services and therefore is looking for a talented engineer to come on board and join the team.

Skills for the role

Area	Skills and capability
Technical	The skills used in the role are a mixture of systems and software development within a number of environments, but primarily PC development of C# in a .NET or WCF environment. We are expecting you to have a practical understanding of using electronic hardware and device drivers, but you don't need to have designed them and we're happy to provide training in further areas for the right candidate. Essential: - Good commercial software experience of Windows software development - System level design of software systems - Delivering solutions involving hardware, especially control or production test systems – i.e. not just software Desirable Good understanding of electronics Experience of working on the design of entire electromechanical systems or automation systems that are more than just software but have electrical and or mechanical elements. Good commercial software experience in at least two of the following: - Linux software development - Mobile software development - Software design using graphical tools such as Labview or Simulink - Control systems development using the National Instruments tools chain - Control systems development using the Beckhoff tool chain - Modelling of control systems - Formal system design experience (e.g. SYSML, UML, etc) - An understanding of physical systems (includingmechanical, thermal and fluidic behaviour)
Qualifications & experience	Essential - Degree educated in software, electronics, mathematics or a related subject - At least one year of systems and software development in an environment utilising skills in both disciplines Desirable - System design of a small or medium sized project - Presenting to technical forums, such as user groups, conferences, etc
Personal	Essential: - Able to present to customers - Able to work with customers to identify requirements - Happy to work on a project independently and in a team - Diligent with attention to detail - Resourceful, proactive and pragmatic in problem solving - Able to deliver to schedule - Flexible and enthusiastic - "Can do" attitude - Excellent written and verbal communication - Strong team-working abilities - Able to travel as needed on occasion – many of our customers are local to the office and the development work is mostly done at our offices, but some travel is

	required from time to time, especially as the company has offices in multiple locations in the UK which we work closely with.

Benefits

The company offers benefits including a competitive salary, 25 days paid leave (plus bank holidays) and entry into the company profit related pay scheme.