



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

Background to the role

About PTP:	<p>PTP, part of the TestWorks Group, is a rapidly 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.</p> <p>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.</p>
What is the role?	<p>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.</p> <p>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.</p>
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	<p>The skills used in the role are a mixture of systems and National Instruments development within a number of environments, but primarily using National Instruments products in a LabVIEW environment. We are expecting you to have a sound understanding of communications and using electronic hardware and device drivers, but you don't need to have designed them. We're happy to provide training in further areas for the right candidate.</p> <p>Essential:</p>

	<ul style="list-style-type: none"> - Software design using Labview - Control systems development using the National Instruments tools chain - Good commercial experience of system level design of systems involving hardware, especially control or production test systems <p>Desirable</p> <ul style="list-style-type: none"> - Good analogue and digital electronics design skills - Good commercial software experience in at least two of the following: <ul style="list-style-type: none"> o Embedded software development o Windows software development o Software design using Matlab or Simulink o 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 (including thermal and fluidic behaviour)
Qualifications & experience	<p>Essential</p> <ul style="list-style-type: none"> - Degree educated in software, electronics, mathematics or a related subject - At least two years of NI software development with exposure to systems design in a multi-discipline environment <p>Desirable</p> <ul style="list-style-type: none"> - System design of a small or medium sized project - Presenting to technical forums, such as user groups, conferences, etc
Personal	<p>Essential:</p> <ul style="list-style-type: none"> - 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 – most 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

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.