



Position: Electronics Design Engineer

Location: Zettlex , Foxton

Reports to: Engineering Manager

Position Summary:

Celera Motion's precision motion control products solve challenges for technology-driven original equipment manufacturers around the world. Our customers are solving some of the world's most difficult and important problems in healthcare and industry and they rely on us to work closely with them to develop innovative motion control solutions. We are growing quickly and are seeking an enthusiastic electronics engineer who would like to work alongside an established team of engineers within our Zettlex inductive encoder division based near Cambridge.

The successful candidate will join a multidisciplinary design team working on new product development. You will be involved in the complete design life cycle from concept through to design, validation and final release into full production.

The ideal candidate would possess knowledge of analogue electronics, PCB design, firmware development and have the ability use mathematical equations to facilitate numerical modelling.

In return for these attributes we offer a key design role within our engineering team. You will be working alongside talented design engineers developing a wide range of sensor designs in a friendly working environment. You will follow pre-determined gateway processes and use engineering principles and disciplines to support the design of sensor products with varying levels of complexity.

The ideal candidate will be a confident and organised self-starter with excellent communication skills capable of building relationships with engineers of all disciplines.



Responsibilities:

- Interpretation of customer requirements and translation into technical specifications
- Low noise analogue circuit design for interfacing with inductive sensors and processing within a digital microprocessor
- Design of PCBs with integrated inductive position sensors
- Firmware development of sensor signal processing and communication routines
- Sensor and circuit board laboratory prototype build, testing and analysis
- Use of PC based software to validate sensor performance
- Formal product testing and qualification
- Creation and transfer of data required for new products into manufacturing
- Active member of new product development teams and liaison with other electronic, mechanical and software engineers

Essential Requirements:

- At least degree qualified in electronics engineering or equivalent course
- At least 5 years' experience in an electrical engineering development role
- Experience in low noise, small signal, analogue circuit design
- Experience of PCB layout design and principles
- Experience of engineering design and analysis using first principles
- High intellectual ability, an analytical approach and close attention to detail
- Experience of new product development and design for manufacture
- Ability to multitask, time manage and work independently
- Excellent PC skills in MS Office including Outlook, Excel and Word

Other skills that would be advantageous for this position include:

- Experience and familiarity of using MathCAD
- Knowledge and familiarity of the EasyPC PCB design tool
- Experience of working with STM32 microprocessors
- Familiarity with revision control tools such as SVN
- Experience of writing PC based software in VB.net and C# using Visual Studio