

Senior Electronics Engineer

Mo-Sys Engineering Ltd
Permanent, Full-Time
London, SE10 0PA

About the Role:

This is a unique opportunity for an experienced Electronics Engineer looking to lead a small team to work with a leading designer and manufacturer of advanced camera robotics and game-changing virtual production technologies for film, TV, and live broadcast.

The role will be split between designing and creating electronics, mentoring other Electronic Engineers and running a small hardware team (consisting of Electronic, Mechanical and System Engineers).

The successful candidate will be experienced in capturing requirements and turning into working designs, capable of leading developments and people, confident in their abilities and be able to pro-actively think out-of-the-box!

What You'll Do:

- Generate design concepts and detailed circuit design, including schematic capture, component selection, simulation and PCB layout.
- Provide input into specification definition, based on commercial/technical requirement, including liaison with stakeholders.
- Evaluate & introduce new technologies where appropriate.
- Ensure designs comply with regulatory, compliance & safety agency standards, supporting the approval process.
- Co-ordinate early prototype builds, taking a hands-on approach to debug and design verification.
- Take part in subsystem level DFMEA activities to help identify risks and suitable mitigations.
- Liaise with Contract Electronics Manufacturers for initial board builds.
- Support production (DFM, DFT, BOM cost optimization).
- Design, integration and test documentation.
- Collaborating across disciplines to resolve design and integration issues.
- Oversee and review designs from other electronic engineers and providing knowledge and assistance to them.
- Ensure the hardware team deliver work to priorities set by the R&D Director.
- Progress reporting to R&D Director.

What We're Looking For:

- BSc or MSc in Engineering (or relevant discipline).
- Hands-on industry experience working on the development of production-ready systems and design of multi-layer PCB's (and PCB stack-up design).
- Electronics design in CAD (preferably Altium), both schematic and layout.
- Experience with microprocessor and microcontroller designs.
- Experience with communication protocols (CAN, Ethernet, Wi-Fi, Profibus, etc.).
- Experience of high-speed communication interfaces and buses.
- Design for EMC/ESD protection.
- Design for Manufacturing and Test.
- Understanding of compliance standards.
- Excellent communication skills.

Nice to Have's:

- Experience with power supply design in a mobile or low power environment.
- Experience with memory subsystems e.g., DDR, Nand, EMMC.
- Experience interacting with Software teams at the device driver level.
- Experience of designing for signal integrity.
- Understanding of mechanical design challenges.

Benefits & Perks:

- Flexible working hours
- Casual office environment
- Private health insurance
- Group life insurance
- Subsidised healthy lunch
- Discretionary annual bonus
- Summer BBQs and social events

About Us:

Mo-Sys is an innovative designer and manufacturer of advanced camera robotics and virtual technologies for the high-end film and broadcast industry. Our product range spans remote heads and motion control, broadcast robotics, mechanical and optical camera tracking for AR and VR, and on-set visualization.

We ship to broadcasters in 40+ countries to a customer base including BBC, Fox, CNN, ESPN and Sky. Mo-Sys remote heads and robotics are used on many Hollywood blockbusters including Life of Pi, Birdman, Shape of Water, Tron, Source Code and Adjustment Bureau. We have also delivered boundary-pushing technology projects in close collaboration with clients like Red Bull Air Race and the film Gravity.

We pride ourselves on having endless creativity, a “can do” attitude and a friendly family feel to the company. We’re looking for people who want to make a difference and have a hardworking and collaborative attitude.

The above list of job duties is not exclusive or exhaustive and the post holder will be required to undertake such tasks as may reasonably be expected within the scope and grading of the post. Job descriptions should be regularly reviewed to ensure they are an accurate representation of the post. (16/11/2022).