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Job Title: System Development Engineer

Location: Cairo, Egypt

Job Description:

As a System Development Engineer, you will take NeoSpectra spectral systems from R&D and concept stage to new product introduction NPI stage, going beyond the state of the art for optical MEMS and optoelectronic systems. You will develop new system-level solutions and architectures in a strong cross-functional environment. You will work on system analysis, modeling, characterization and testing activities to qualify new system components or blocks, to meet target product performance at different environmental conditions including temperature, humidity, vibration, etc.

Responsibilities:

- Contribute to system development, design, modeling and simulation of NeoSpectra spectral sensors.
- Provide system blocks specifications that achieve product target performance.
- Contribute to system characterization and develop system validation test flow.
- Develop product calibration flow with necessary algorithms and setups.
- Interface and work closely with different teams (MEMS, Optics, Software, Electronics, Mechanics, etc.) along different product stages from kick-off and initial development till delivery and hand-over to production.
- Work on product yield analysis and enhancement.
- Communicate system technical status to project managers.
- Work with marketing team for customers' technical support.
- Help marketing team in generating datasheets and technical documentation of products.

Qualifications:

- A B.Sc. or M.Sc. degree in electrical engineering with 0-2 years of experience in the semiconductor industry preferably in a similar position.
- Hands on experience in performing lab experiments, testing, characterization and failure analysis, is a plus.
- Experience with lab equipment and ability to build bench characterization setups for measuring the performance of MEMS as well as optical components is a plus.
- Previous experience in spectroscopy is a plus.
- Familiarity with MATLAB is preferable.
- Experience with DSP algorithms is a plus.
- Solid understanding of optical design, integrated optics, volume optics and MEMS basics.
- Self-starter with demonstrated quantitative analysis and problem-solving skills.
- Able to pro-actively communicate with different teams. .and work under pressure.
- Good planning and time/schedule management skills, attention to detail, and the ability to drive standardized practices are a must.
- Team work orientation, networking, and effective verbal and written communication skills, and have tendency towards new ideas, creativity, and innovation.
- Able to pro-actively communicate with different teams and work under pressure.
- Excellent documentation skills.
- Excellent command of English language.

**Potential candidates are welcome to forward their resumes to human.resources@si-ware.com.
Please mention the job title in the subject of your email.**