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Telephone: +20 2 22 68 47 04
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Internet: www.si-ware.com

Job Title: MEMS Product Engineer

Location: Cairo, Egypt

Job Description:

As a MEMS Product Engineer, you will develop a wafer-level and component testing solutions that goes beyond the state of the art for optical MEMS and optoelectronic devices. You will work on testing activities and test equipment development activities to qualify new optical MEMS chip and wafer designs and provide test feedback to technology, product development & production teams. You will develop a complete testing solution including algorithms, software and hardware components to extract parameters from the collected data in a strong cross-functional communication with design and production teams in a fast-paced and challenging professional environment.

Responsibilities:

- Lab testing of software and hardware solutions from different aspects: optical, electrical and mechanical while analyzing results to develop on-wafer testing solution.
- Design, develop, procure, test and qualify necessary hardware and software to create a complete test solution for development and production purposes. Then maintain the developed solution calibrated, achieving the target measurement yield and meeting the overall specifications.
- Provide the required software algorithms for test execution and collaborate with software team to release software platforms to execute on-wafer testing.
- Smart automated data collection and data analysis for wafer testing results to provide final results. Analyze results and communicate the observations and recommendation to the corresponding teams.
- Create required documentation including test design, instructions, specifications, drawings, verification, test results generation and analysis.
- Work closely with the System, MEMS, Optics and Software teams insuring a qualified screening criteria and accepted chip delivery.

Qualifications:

- BSc. degree in Electrical Engineering
- Good Electrical measurement and test equipment background
- Experience in programming and algorithm development
- Knowledge in automated data collection and processing
- Technical background in optical components and/or systems is a plus
- Receptive to mechanical engineering concepts is a plus
- Experience with statistical data analysis, process characterization and yield analysis is a plus
- Strong computer skills (PowerPoint, Excel, Word, etc.)
- Strong Matlab experience

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- Labview experience is a plus
- Python programming and machine learning knowledge is a plus
- Strong analytical skills
- Self-motivated and able to work autonomously
- Good communication skills
- Efficient time management
- Task orientated
- Able to work well across disciplines and departments

**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.**