

Pixel Designer - Image Sensor

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Company: ic resources

Location: Spain

Category: computer-and-mathematical

I am recruiting a Pixel Designer to join a rapidly expanding start-up in Spain that specialises in advancing image sensor technologies and integrated solutions, with a focus on driving the evolution of next-gen computer vision applications.

Responsibilities will include but are not limited to the following:

Design and optimise pixel circuits for imaging sensors and display technologies, considering factors such as sensitivity, noise reduction, power consumption, and response time.

Develop both analog and digital components of pixel circuitry, including signal processing, amplification, and digital control circuits.

Collaborate with process engineers to adapt pixel designs to specific semiconductor manufacturing processes and technology nodes.

Conduct extensive testing and characterisation to ensure pixel designs meet performance specifications and quality standards.

Implement innovative solutions to enhance image quality, reduce noise, and improve power efficiency in pixel designs.

Work closely with cross-functional teams, including image signal processing and system integration engineers, to ensure seamless integration and optimal system performance.

Stay abreast of the latest trends and advancements in semiconductor technology and

incorporate innovative features into pixel designs.

Contribute to the development of intellectual property through patent applications and publications.

Qualifications:

Bachelor's/Master's/ degree in Electrical Engineering, Semiconductor Physics, or a related field.

Proven experience in pixel circuit design for imaging sensors or display technologies.

Strong background in analog and digital circuit design, with a focus on semiconductor devices.

Familiarity with semiconductor manufacturing processes and technology nodes.

Proficiency in simulation and design tools such as SPICE, Cadence, or similar.

Solid understanding of image sensor architectures, pixel readout techniques, and image signal processing.

Experience with testing and characterisation of semiconductor devices.

Excellent problem-solving and communication skills.

Ability to work collaboratively in a team environment.

Preferred Skills:

Experience with low-power design techniques.

Knowledge of CMOS image sensor technology.

Familiarity with emerging display technologies (OLED, microLED, etc.).

Published research or patents in the field of pixel design or semiconductor technology.

= For the right candidate, my client can offer a leadership position and facilitate remote get in touch with Parm Shergill for more information.

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