

FPGA & Embedded Engineer

About US: VoxelSensors is a young fabless semiconductor startup looking to provide the SPAES sensors for sequential 3D depth systems. We are ahead of the game, aiming to outperform technologies such as LiDAR, ToF and stereoscopy by a factor 100x. Our focus is to enable low-power, accurate depth systems based on our unique and patented sensor technology. We aim to give autonomous vehicles, robotic machines, smart VR and AR glasses and mobile devices the eyes they need to intelligently see, map and sense the world in motion. You will join our founding team of seasoned entrepreneurs and technologists.

VoxelSensors is hiring an enthusiastic FPGA & Embedded Engineer with a natural drive for continuous improvement. You are creative and self-directed, with an analytic mind and a knack for problem-solving. You will be a key member of the development team, responsible for the development of embedded software and firmware which are integrated in our sensor and system products.

Your core responsibilities at VoxelSensors will be to drive FPGA and embedded software activities:

- define, design and implement firmware architecture
- creating and maintaining state-of-the-art development environment
- supporting competence and knowledge management
- work with our sensor design team and partners for system integration
- contribute to sensor and system validation

Your profile:

- At least 5 years of experience in FPGA and firmware development
- You are knowledgeable of all aspects of HW/FW lifecycle from requirements gathering, feasibility analysis, prototyping, development to production releases
- You have strong experience with various FPGA families and with VHDL/Verilog coding
- Hands-on experience with MPSoC platforms (e.g. AMD/Xilinx Zynq UltraScale+), including writing and debugging embedded C on the hard processor system — bare-metal, RTOS or Embedded Linux.
- Extensive python, C knowledge is required, with a solid understanding of System-on-Chip architecture, ISPs, signal processing chain
- Proven experience in low-level programming to manage hardware interfaces and typical communication protocols, including I2C, SPI, MIPI CSI-2, UART. Ability to read and interpret hardware schematics and datasheets is essential.
- You are an excellent team player, with team leadership spirit & ability to mentor
- You have a solid mastering of technical English in verbal and written communication is essential.

You will be part of an exciting venture in a booming field of depth sensing and ranging. We offer you:

- a dynamic international environment
- a highly motivated senior team with background in Europe, Asia and the US
- excellent growth opportunities as we develop the company together
- a competitive compensation package tailored to your needs

You need to know that your office is located in Brussels, Belgium. We support working from home and do not require you to check in daily. Working hours are flexible, we understand the challenges managing work and home and are happy to facilitate a good work-life balance. Our company is committed to fostering a workplace where diversity is valued and respected.

The next step will be for you to get in touch with hr@voxelsensors.com with your latest resume and two paragraphs about yourself. Our HR team will evaluate your resume and will invite you for an interview when qualified.