

Micro Electronics engineer

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Company: SABCA

Location: Brussels

Category: computer-and-mathematical

Are you one of those people who look up to the sky every time a plane passes by?

Space holds no more secrets for you than it does for science?

Environmental and technological challenges are among those you wish to tackle?

Come join Sabca and play your own role in the fast-moving world of aerospace inside a company with more than years of existence.

We are experts in designing, manufacturing, maintaining, and upgrading large and complex elements for aircraft and space launchers.

In Brussels, we have our Structural and Mechatronics Engineering offices, where all our new programs begin and our workshops are equipped with modern

machines that produce complex metallic assemblies for aircraft and space launchers as well as advanced Thrust Vectoring Systems for space launchers.

SABCA Brussels is also the home to our Unmanned Autonomous Systems aka: the drones solutions unit!

Mission

The mission is to support the development of critical aerospace actuation systems (for space and aeronautical applications).

The electronics are controlled by an in-house processor, which is defined, designed and verified at SABCA. The processor runs into a FPGA, allowing to generate variations of it depending on client needs.

As this processor is designed at SABCA, the design and verification process must follow the norms of the application is going to work on (DO in aeronautics and ECSS-Q-ST-60-02C for

space). The processor design is done in a very close collaboration with the SW team.

As microelectronics engineer, you will be in charge of:

Capturing the in-house processor requirements coming from; client specification, electronics constraints or SW constraints.

Creating/Updating/Understanding the in-house processor requirements.

Creating/Updating/Understanding the in-house processor architecture.

Creating/Updating/Understanding the in-house processor FPGA Design (VHDL Code in Microsemi FPGA).

Support the verification team (error debug, testbench modifications,...).

Cooperate and take responsibility at its level regarding ISO

Required knowledge

- Capture and generation of requirements.
- Deep knowledge in VHDL.
- Data transmission protocols knowledge (SPI, I2C, UART, ...).
- Microsemi FPGAs (IGLOO2, Proasic3, PolarFire,...).
- Perl and Python languages.
- Knowledge of electronic design (Schematic understanding).
- Basic knowledge of board verification tools (oscilloscope, power supply, waveform generator).

Highly Desired knowledge

- Knowledge of DOORS.
- Knowledge of Linux system.
- Knowledge of RISC processors architecture.
- Knowledge of MIL-STD-B and Ethernet-IPv4-UDP communication protocols.
- Tcl scripting language.
- Single Events Effect calculation (Radiation Effect on FPGAs).

Required experience

- Electronics/Microelectronics engineering diploma.

- 5 years of experience in FPGA Design under Cycle V methodology (aerospace sector is a plus).

Languages

- English required.
- French or Dutch is a plus.

So, What's in it for you?

Experience! Gain new experience to thanks to the full range of services we offer to the civil, space and military aviation markets as well as to the commercial Unmanned Autonomous Systems (drones). Our activities include designing, manufacturing, maintaining, and upgrading large and complex elements for aircraft and space launchers for customers and partners belonging to the elite of the aerospace industry.

Excitement! Work in an exciting environment where long-standing expertise and research and technological development feed off each other.

Sabca collaborators have their passion and their know-how as common denominator.

Teamwork, reliability and innovation are part of the culture we value and that lead us to success.

Challenges! Help Europe access to space by designing and manufacturing rocket structures.

Be part of the pioneers in developing advanced air mobility solutions inside our division dedicated to drones. Use your knowledge to take people around the world on board low-carbon aircraft.

Contribute to the environmental and technological challenges of the century. Play your own role in the fast-moving world of aerospace.

Be ready for take-off!

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