



every photon counts

## EMPLOYMENT OFFER

### POSITION: EMBEDDED SOFTWARE EXPERT

PUBLISHED JUNE 22, 2022

Nüvü Caméras Inc. is a high-tech company that manufactures, develops and markets ultra-sensitive low light imaging solutions for ground and space-based applications. Based on an innovation developed for space exploration, Nüvü Caméras' photon-counting imaging expertise now meets the demanding needs of many leading-edge applications such as medical and biomedical diagnostics, night vision, quantum communication and manufacturing quality control, to name a few. Since 2010, the company has put its expertise forward with its highly referenced publications, renowned international clients and innovation alliances at the cutting edge of technology and science. Recognized globally as a leader in its field, Nüvü Caméras is expanding rapidly and seeks to expand its dynamic, creative and professional team.

#### Position Summary:

As part of the development of imaging systems, the role of the new employee is to contribute to the development of embedded software for electronic subsystems. To evolve through the entire life cycle of an innovative company, the employee must demonstrate good priority management, have a keen sense of detail while being able to see the big picture and be recognized for their talents in embedded programming and digital design. This job will require contributing to the development and testing of new prototypes. Under the responsibility of the research and development department, the candidate will have to work with a multidisciplinary team of engineers and scientists to whom he will be complementary with his advanced notions of electronics and computer science.

#### Specific Responsibilities:

- Contributes to the programming of embedded software functions;
- Participates in feasibility studies, experiments, and development tests as well as the analysis of results;
- Contributes to the diagnosis and repair, if necessary, in the event of electronic non-compliance;
- Communicates the results of their work with management tools;
- Communicates the results of their work and his ideas through reports, presentations and team discussions;
- Contributes to supply research for electronic subsystems' components or solutions.

#### Education and Experience:

A Bachelor's degree in electrical engineering or higher diploma.

A minimum of three (3) years of experience in complex analog and digital circuit design, PCB design and procurement with electronic component suppliers.

#### Skills and Desired Qualities:

- Advanced knowledge of embedded system programming
- Advanced knowledge of the C language



every photon counts

- Intermediate knowledge in digital design in VHDL
- Basic knowledge of simulation and optimization of digital circuits
- Basic knowledge of digital and analog circuit design
- Ability to use lab equipment such as oscilloscope, logic analyzer, and function generator
- Knowledge of the Altium suite
- Ability to diagnose electronic circuit problems
- Organization, autonomy, meticulousness and precision skills.

**Assets:**

- Experience with embedded systems programming
- Design experience in C language
- Digital design experience in VHDL
- Experience in continuous development and automated testing
- Knowledge of Xilinx and Microchip products and development platforms
- Able to work on the Linux platform
- Statistics notions
- Experience in simulation and optimization of analog and digital circuits
- Experience with Jenkins and unit tests for embedded systems
- Experience with continuous integration and continuous development methodologies (CI/CD)

**Terms:**

Position: Full-time, permanent (37.5 hours/week)

Schedule: Flexible from Monday to Friday (attendance required between 9:30 AM and 3:30 PM)

Salary: Competitive, based on file

**If this position interests you, please send your Curriculum Vitae and letter of intent to [careers@nuvucameras.com](mailto:careers@nuvucameras.com). We ask that candidates withhold from calling, as the numerous applications received do not allow us to respond to everyone. We thank you for your interest and will contact you if your application is successful.**