

Senior IMU related products developer

The selected candidate will participate in the development of an advanced motion analysis system. His/her responsibilities will include designing and implementing filtering and analysis algorithms for a motion analysis software which will be coupled with HumanCAD, our human modeling simulation platform, and also available as a standalone library.

Required skills & qualifications

- University degree in mathematics, electrical engineering, or software engineering
- Strong knowledge of mathematics specifically in numerical methods of integration/differentiation
- Experience with inertial measurement units
- Experience with signal analysis and filtering (Kalman, Butterworth, etc.)
- Relevant programming experience in C++ (boost, Qt, CMake, ...)

Desirable skills & qualifications

- Familiarity with embedded systems programming (PIC, ARM, etc.)
- Experience with IK/FK, inverse dynamics or biomechanics
- Knowledge in rigid bodies dynamics

Personal skills & qualifications

- Independent problem solving skills
- Attention to detail and a positive attitude
- Excellent communication skills
- Language skills: French oral, English written and oral

Only those selected for an interview will be contacted.

Please submit your resume by email to admin@nexgenergo.com