



Computer Vision Engineer

Les Companions is a start-up specialized in designing and developing robotic assistants for painters. Our vision is to have skilled tradesmen work hand-in-hand with machines, in a collaborative way on the building sites. The machine achieves the hard, repetitive and dull tasks while the workman works on the more skilled and noble tasks, where his know-how is highly valued.

We are located in Lille, Northern France, a very lively and dynamic place, renowned for its lifestyle and its connections to major cities in Europe (you get to Paris, London or Brussel in about an hour).

Mission

At the very heart of our tech, a SLAM-based 3D scanning system is found, it relies on 3D (Kinect-like) cameras. It aims at bringing the smoothest user experience and easing the human-machine interactions. Frankly the tech is very cool, it is still under heavy development and there are core and exciting challenges ahead for you to make it accessible to painters. You are responsible for:

- Improving and enforcing the scan / localize architecture in accordance with need
- Improving the reliability and efficiency of the 3D scan / localization method
 - This mainly involves algorithmic work (numerical optimization, fusion of the camera with other sensors, extraction of feature points...)
- Optimizing code especially parallel code on GPU
- Integrating your developments in the system
 - That is integrating your code in the HMI
 - And integrating the hardware on the robot
- Sourcing the hardware needed for R&D and industrialization
- Bringing new ideas that will feed innovation
 - This involves being inspired and creative
 - And keeping up-to-date with the worldwide research on 3D vision



Scene scanned by a depth (kinect-like) camera.

Your profile

- You have a proven track record in computer vision or numerical techniques
- You have at least 2 years experience or a PhD
- You are proefficient in C++ and parallel computing (CUDA is an asset)
- You are committed, self-motivated, and creative

We offer

- A dynamic, innovative environment and a small welcoming team
- A disruptive project adventure that can change the world... well at least a little bit ;)
- A competitive salary package

Contact

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Les Companions
We make your process smart!

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