

Dear Madam or Sir,

I am writing to express my interest in the Senior Software Engineer - Computer Vision, C++ position at Bolt6. I am a Senior SLAM Engineer with over 7 years of experience developing high-performance, production-grade C++ robotics software.

The core values of the company make me excited to join the team. It strikes me as a great place to work since I am also enthusiastic about most sports.

My technical background aligns closely with the requirements of this role:

- **Ownership & maintenance of Computer Vision Products End-to-End**

I have over 7 years of software development experience in C++. I have created numerous prototypes, brought them to production, and iteratively improved them while maintaining them.

- **Optimization & debugging of Real-Time Computer Vision applications**

I conducted various investigations to uncover performance issues and elusive bugs in production code bases using different profilers and other debugging tools like gdb, thread_sanitizer, Valgrind, and Tracy.

- **Cross-team collaboration & culture fit**

I enjoy working in a SAFe (Scaled Agile Framework) environment, planning future work carefully, and performing in-depth code reviews. In my previous role at Inria I have successfully interfaced with the stakeholders involved to obtain the product requirements. I am often volunteering suggestions to ameliorate the team's pain points, and I find satisfaction in mentoring new engineers, always promoting a collaborative team culture.

- **Proficiency in Computer Vision**

My work in SLAM and state estimation involves complex factor graphs, Lie algebra, and covariance propagation. I believe that the knowledge gained is transferable to a wide variety of computer vision techniques. During my career, I have implemented various prototypes starting from the white paper.

- **Solving non-linear least square problems**

Working in SLAM and state estimation, I usually have to model the problem as an LS problem. The most recent example is while implementing an improved IMU filtering.

- **Experience in UI development (ImGui)**

I have used the ImGui library extensively, both in Inria and in Kudan, developing GUIs and development tools to visualize the system state.

I consistently prioritize clear software architectures alongside performant implementations.

I am eager to bring my expertise in high-performance software engineering to Bolt6. Thank you for your time and consideration.

Yours faithfully,

Edoardo Ghini