



European XFEL GmbH, Holzkoppel 4, 22869 Schenefeld, Germany

To whom it may concern

Dr Luca Gelisio

Data Analysis
Group leader

Phone +49 40 8998 - 6761
luca.gelisio@xfel.eu

Schenefeld, 06 September 2021

Reference letter for Martin Domaracký

To whom it may concern,

I had the privilege of working with Martin from 2019 to 2021, when I was leading the Scientific Computing team at the DESY Center for Free-Electron Laser Science (CFEL), in Hamburg.

When I took that role, Martin was already part of the team. He was responsible for the development of the control system of two complex machines used chiefly to produce multilayer Laue lenses (MLLs). The production of these lenses is complicated, expensive and time-consuming. Martin's framework – Kamzik – is capable of successfully orchestrate the production of high-precision MLLs, comes with a very intuitive graphical user interface co-designed with operators, and offers simulated devices for comprehensive testing and debugging. The same framework is also used to control other devices, for example X-ray diffractometers, and enables complex experiments at synchrotrons and free electron lasers using innovative setups designed and built at CFEL.

Kamzik crucially contributes to the advances, developments and success of one of the most well-known groups in the World.

When the SARS-CoV-2 pandemic started, I was tasked to lead an effort to manage data and metadata produced in what *may be the largest crystallographic screen in history*¹. Martin, the only software developer in the team, built a relational database modeling the entire campaign, from crystallization to final analysis, an effective graphical user interface used by approximately hundred people in several Countries, as well as the connection to the X-ray beamlines. All this happened in a couple of weeks, with little sleep and no weekends to rest a bit. His system is now being implemented at the European XFEL.



I can certainly give other examples of the impressive software developer which Martin is – skilled e.g. with Python, Qt, web technologies, databases and hardware interfaces –, but I believe this is enough and I want now to describe him from a different point of view.

Martin is definitely the most professional person I ever met. He always met deadlines, even when time was clearly not enough. He did so because he felt the responsibility: his software has been – and will be – the key for the success of hundreds of experiments and the production of the most advanced MLLs ever produced. Martin is curious and creative, and interested in new technologies. Martin is passionate, he is always willing to help colleagues, he is friendly and positive. He is definitely a team player, used to work in a diverse and dynamic environment, absolutely capable of sustaining pressure.

Finally, Martin is just the person that every group leader dreams to employ.

I hope I managed to highlight enough how much I enjoyed working with Martin. In any case, please feel free to contact me, you can find my contact details in this letter.

With best regards,



Luca Gelisio

[1] <https://practicalfragments.blogspot.com/2020/11/massive-crystallographic-drug-screen.html>