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To Whom it may Concern,

Re: "Senior Research Scientist for Interventional Medical Imaging"

I am applying for the position of Senior Research Scientist for Interventional Medical Imaging, having seen the position advertised in LinkedIn. I believe I would be a good technical fit for the role.

I am aware of the product, having spoken to clinicians who use the produce during thyroid ablations, and share the belief that three-dimensional ultrasound will be a powerful tool, advancing segmentation, tracking and classification as you state in the job description, but also in registration tasks.

I have permanent residency in Germany and speak conversational German. I am applying as there are structural changes at my current role which reduces opportunities for development. I am enthusiastic about this role as

I am an applied mathematician by training, but have experience in both diagnostic and therapeutic ultrasound. I was a key figure in a team which was joint first place in the Challenge on Ultrasound Beamforming with Deep Learning competition in 2020. However I am more familiar with jax, rather than pyTorch. I gave a invited lecture on the use of AI in therapeutic ultrasound at the most prestigious therapeutic ultrasound conference, ISTU, in 2023.

I have used the mathematical skills to write performant, well documented, tested, deployable code in python and C++, compliant with ISO 13485 and IEC 62304. I am familiar with the software skills listed. As part of a large EU project on assessing explainable AI tools for image analysis, I have experience with deploying containerised models in google cloud in the context of mammography classification.

Yours faithfully,

David Sinden

Attached: curriculum vitae