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Dear Hiring Team,

I am writing to express my interest for the Software Engineer position in the R&D team at HBK in Virum. I recently completed an MSc in Computational Physics at the University of Copenhagen and am seeking a software engineering role where performance-critical C++ development, data acquisition, and signal-oriented analysis intersect with real-world measurement systems.

My background is centered on designing and extending C++ codebases for numerical and data-driven systems. During my master's thesis, I developed and maintained a modular C++ simulation framework under strict performance and correctness constraints, supported by Python-based analysis pipelines for validation and interpretation of large datasets. This work required careful attention to numerical stability, reproducibility, and maintainable software design—principles I understand are central to HBK's R&D culture.

I have a strong foundation in signal and data analysis relevant to sound and vibration applications, including time- and frequency-domain methods, FFT-based analysis, filtering, and statistical evaluation of measurement data. Through coursework and projects, I have worked extensively with Linux-based development, cross-platform tooling, and parallel computing, and I am comfortable collaborating across disciplines with hardware and testing-oriented teams.

In addition to backend development, I am actively expanding my frontend skill set toward web-based visualization of measurement data, with hands-on experience in JavaScript and React at a foundational level. I am motivated to grow as a full-stack engineer within a product-focused R&D environment and value clean code, testing, and collaborative development practices.

I am particularly drawn to HBK because of its focus on high-quality measurement software used in demanding engineering domains, and the opportunity to contribute to a global R&D organization working closely with both hardware and application experts.

I would welcome the opportunity to further discuss how my background and motivation align with the Software Engineer role at HBK.

Sincerely,

Dimitrios Anastasiou