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Quantum Computing Group

Mornewegstraße 30, 64293 Darmstadt

Dear Professor Gachechiladze,


I am writing to provide you with the additional details about my educational background and academic interests that you requested.

After completing my high school education, I pursued and completed a dual degree in Business Informatics, graduating with a Bachelor of Science degree. During this programme I developed a strong interest in the technical aspects of the field. I particularly excelled in courses on databases, operating systems, introduction to IT algorithms and data structures.

My dual degree also gave me first-hand experience of the practical side of things. I worked at the Higher Regional Court in Stuttgart, where I was responsible for IT security. In this role, I focused on container and sandbox technologies designed for judicial applications.

After completing my Bachelor's degree, I knew that I wanted to continue my studies with a Master's degree at the Technical University of Darmstadt. So I started my Master's degree in IT Security in 2022. During my studies, however, I realised that I was fascinated not only by IT security, but by the whole field of computer science. So I switched to the Master's programme in Computer Science, where I continued to focus on IT security. During my Master's, I found myself drawn to subjects like Public Key Infrastructure (PKI), Embedded System Security, Computersystem Security, and Introduction to IT Security. I was particularly interested in hardware security, such as secure boot architectures or trusted anchors.

However, quantum computing fascinated me in a deeper way that went far beyond simply completing the course. The subject aroused a deep curiosity in me, which motivated me to pursue the topic further. In particular, the theoretical foundations, the approach to quantum mechanics and the interplay of different states inspired me to delve deeper into the field. I started watching Qiskit videos from previous summer schools and reading scientific papers to deepen my understanding and find possible links to my previous research interests.



As part of my studies, I have already been involved in two research projects focusing on hardware security for satellite systems. I am planning to start my PhD in the US in the middle of next year and am also considering working in quantum computing, possibly combining this fascinating field of research with my existing interests.

Thank you for considering this information. Please let me know if you require any further details.

Best regards,

Franziska Vollmer