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Prof. Dr.-Ing. Thomas Wiegand
Fraunhofer Institute for Telecommunications
Image Processing Department
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Einsteinufer 37
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Application for a PhD thesis in your workgroup.

Dear Professor Wiegand,

I graduated with a Master's degree (M.Sc.) in Electrical Engineering in July 2007, a dual degree Masters program in Information and Communication Technology from University of Karlsruhe, Germany and Politecnico di Torino, Italy. I attended courses on information theory, video communication and spectral analysis which provided a broad theoretical foundation for my current position in the image and video compression field. Throughout my studies, I have taken every possible opportunity to get practical experience in the field namely at various lab projects where I got insight into the state of the art video and image compression standards.

For the past four years I have been working for the Leica Camera AG in the department of digital imaging on data compression and their container formats. During this period, I was able to extend my knowledge on the work flow of image data of modern digital cameras. Here, I developed an algorithm for lossless compression of RAW images using context adaptive Huffman codes which is now used in the new line of digital cameras. A part of my work concerns the qualification and understanding of current advanced video coding standards. It further includes the study of future standards used for high end data compression.

Since I am highly interested in the research on data compression in image and video, starting a PhD thesis would be the next logical step for me. I got to know about you from the contribution of your institute in this field, subsequently I am approaching you in this matter since your institute is working on various aspects of optimization, analysis and communication of image and video coding techniques, these research topics are exactly the area where I would like to focus on.

I would like to contribute to the ongoing research at your institute and hope that my profile is a fit for your workgroup. I am looking forward to hearing from you and I hope that you give me the opportunity to introduce myself to you in person.

Yours sincerely,

Ankit Kaushik

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