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Ahmed Z. Ghonem

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Santa Clara, CA, USA

NVIDIA

[Company Address]

Dear [Hiring Manager's Name],

I am writing to express my strong interest in the GPU Silicon Architect position at NVIDIA, as advertised. With over 7 years of experience in neuromorphic computing, AI-accelerated SoCs, and low-power digital systems, I have honed my skills in computer architecture and GPU optimization, making me an excellent fit for this role. My commitment to innovation aligns perfectly with NVIDIA's mission to advance AI technologies, enabling computing that shapes a better future.

In my most recent position as a Senior SoC Design Engineer at NVIDIA, I spearheaded the RUBIN GPU Emulation setup, successfully automating workflows and reducing engineering effort by 60%. This initiative not only accelerated our development cycles but also enhanced collaboration among cross-functional teams, driving our projects forward effectively. I also developed a top-level connectivity linting tool utilized by over ten teams, tripling our debugging efficiency—a perfect example of my ability to deliver high-impact solutions that resonate with business objectives.

My educational foundation in Electrical Computer Engineering, complemented by an MBA, equips me with a unique perspective that merges technical excellence with strategic business insights. I understand the importance of aligning technical developments with overarching company goals. During my tenure at the Electroscience Lab at The Ohio State University, I successfully designed and implemented a 512-neuron digital neuromorphic processor, taking the project from concept through to GDSII in cutting-edge technology. These experiences have ingrained a problem-solving mindset that I believe will be invaluable at NVIDIA, especially as the company continues to lead the AI chip market.

NVIDIA's recent investments in generative AI and the emphasis on diverse, inclusive, and innovative environments resonate with my own professional values. I am excited about the opportunity to contribute to innovative solutions that make a difference across sectors, especially with NVIDIA's growing partnerships aimed at expanding AI capabilities.

I look forward to discussing how my skills and passion for technology can contribute to the ongoing success at NVIDIA. Thank you for considering my application. Please feel free to reach me at (614)-962-0527 or via email at a.ghonem@ieee.org to schedule a conversation.

Sincerely,

Ahmed Z. Ghonem