

Dear Hiring Manager,

I am excited to apply for the Senior Formal Verification Engineer position at AheadComputing. With a PhD in Computer Science and extensive experience in hardware formal verification, I have 3.5 years experience at AMD as a Member of Technical Staff, focusing on GPU formal verification.

In my AMD role, I have successfully executed full proof formal verification on multiple GPU blocks, leveraging tools like VC Formal and JasperGold. My expertise includes FPV (design exercise, bug hunting and sign-off), SEC verification (clock gating), complexity reduction techniques, and connectivity checks, leading to the detection of +20 critical RTL bugs and optimization of performance bottlenecks. Additionally, my PhD research background includes 14 publications in top conferences and extensive work in software formal verification.

I am particularly interested in applying my formal verification expertise to high-performance RISC-V cores and contributing to the development of innovative verification methodologies at your company.

I would welcome the opportunity to discuss how my skills align with your teams goals.

Please find my resume attached for your review. Also, I am a U.S. Green Card holder and do not require visa sponsorship. I look forward to hearing from you.

Best regards,

Amirfarhad Nilizadeh