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Bio

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Peiwen Liu is a Staff Engineer in the CTO Office at Applied Materials, where he works on next-generation photonic interconnect technologies for AI data centers, with a focus on enabling high-bandwidth, energy-efficient data communication. His work also spans advanced semiconductor and display technologies, including MicroLED manufacturing and device integration. He earned his Ph.D. in Lasers & Optics from William & Mary, with research focused on condensed matter physics, ultrafast optics, and electronic materials. He is currently pursuing graduate studies in Electrical Engineering at Stanford University, further expanding his expertise in advanced circuits and photonic technologies.