

Reviving Moore's Law with an EUV FEL

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Moore's Law has been pronounced dead many times by a long list of technology leaders. In this presentation, I will show how the advanced semiconductor manufacturing industry can fully revive Moore's Law and extend it for decades by implementing an industrial scale EUV Free Electron Laser (FEL) at the fab.

Nicholas serves as Chief Executive Officer and Chief Technology Officer of xLight. Before assuming his roles, Nicholas led the development effort to build the world's first useful quantum computer at PsiQuantum.

Nicholas spent 20 years in the Department of Energy National Lab system designing, building, and operating large scale, x-ray science facilities and instrumentation. Starting at Lawrence Berkeley National Lab, he developed novel instrumentation and upgrades for the Advanced Light Source (ALS) and Berkeley Lab Laser Accelerator (BELLA) user facilities. He then moved to SLAC National Lab at Stanford where he was the Chief Engineer for the Linac Coherent Light Source (LCLS), a 3-mile-long x-ray free electron facility for ultrafast science.