

# Tech Industry Matrix

Industry	Representative Companies	Operating Systems (OS)	CPUs (create / use)	GPUs (create / use)
<b>Personal Computing</b>	Microsoft, Apple, Dell, HP, Lenovo	<b>Create:</b> Windows, macOS <b>Use:</b> Linux distributions	<b>Use:</b> Intel x86/x64, AMD x86/x64 <b>Limited Create:</b> Apple custom ARM (M1/M2, etc.)	<b>Use:</b> NVIDIA, AMD, Intel
<b>Mobile / Tablet</b>	Apple, Samsung, Google, Xiaomi	<b>Create:</b> iOS, Android	<b>Create:</b> Apple A-series/ARM, Samsung Exynos, Google Tensor <b>Use:</b> Qualcomm Snapdragon	<b>Create/Use:</b> Qualcomm Adreno, ARM Mali, Apple GPU cores
<b>Cloud Infrastructure</b>	Amazon AWS, Microsoft Azure, Google Cloud	<b>Use / Customize:</b> Linux (various), Windows Server	<b>Use:</b> Intel Xeon, AMD EPYC, AWS Graviton (ARM)	<b>Use:</b> NVIDIA GPUs (for AI/ML), AMD GPUs in some cases
<b>Semiconductors / Silicon Design</b>	Intel, AMD, NVIDIA, Qualcomm, ARM	N/A (except internal)	<b>Create:</b> Intel x86/x64 & Xeon, AMD x86/x64 & custom, Qualcomm	<b>Create:</b> NVIDIA GPUs, AMD Radeon GPUs, some custom silicon

			ARM, ARM licenses	
<b>Gaming Consoles</b>	Sony, Microsoft, Nintendo	<b>Create:</b> Custom console OS (e.g., Xbox OS, PS OS)	<b>Use:</b> Customized AMD CPUs (x86)	<b>Use:</b> Customized AMD GPUs
<b>Enterprise Software / Servers</b>	Oracle, SAP, IBM	<b>Use:</b> Linux, Windows, UNIX variants	<b>Use:</b> Intel & AMD server CPUs	<b>Use:</b> Intel, NVIDIA (for specific workloads)
<b>Telecommunications</b>	Ericsson, Nokia, Huawei	<b>Use:</b> Linux, RTOS in embedded	<b>Use:</b> ARM-based processors, custom ASICs	<b>Use:</b> Integrated GPUs/accelerators for specific tasks
<b>Automotive (Software + Compute)</b>	Tesla, Toyota, GM, Volkswagen	<b>Use:</b> Linux variants, QNX, Android Automotive	<b>Use:</b> NVIDIA DRIVE, Qualcomm Snapdragon, custom SoCs	<b>Use:</b> NVIDIA GPUs, ARM Mali, Qualcomm Adreno
<b>Web Platforms / Services</b>	Google, Meta, Amazon, Apple	<b>Use:</b> Linux (servers); Android, iOS for mobile	<b>Use:</b> Intel/AMD server CPUs; ARM in mobile/fleet	<b>Use:</b> NVIDIA GPUs for deep learning workloads
<b>AI / High-Performance Computing (HPC)</b>	OpenAI / Anthropic (cloud), NVIDIA, Google DeepMind	<b>Use:</b> Linux	<b>Use/Create:</b> NVIDIA custom AI CPUs under development, Google TPU (accelerator)	<b>Create:</b> NVIDIA GPUs (A100, H100, etc.), Google TPUs (as accelerators not traditional GPUs)