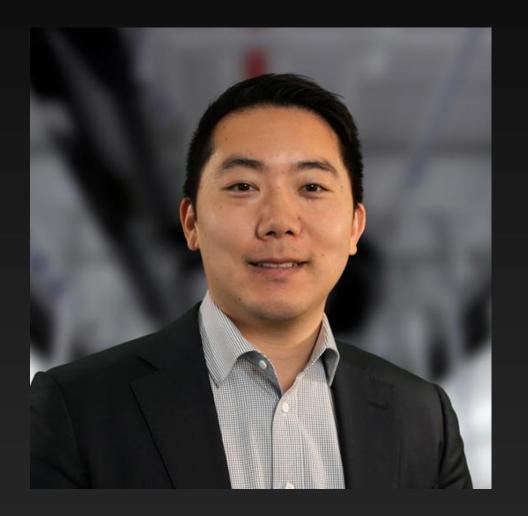
GF: Enabling Al in the Physical World

Investor Webinar December 2025



Eric Chow

Investor Relations





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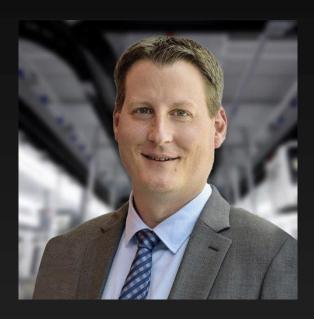


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Chief Business Officer



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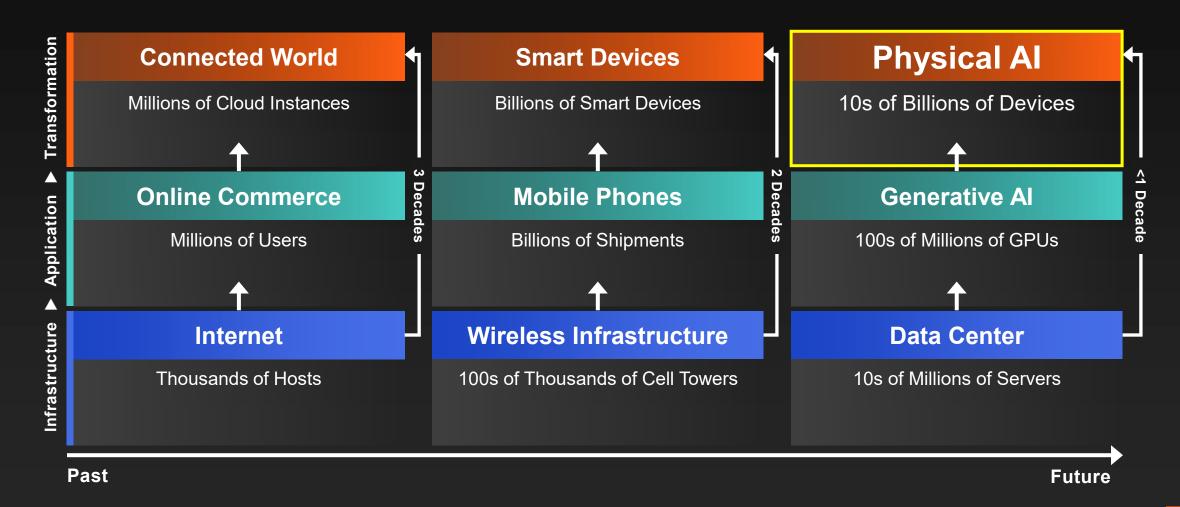
SVP – Ultra-Low Power Product Line



Physical AI:The Next Market Inflection

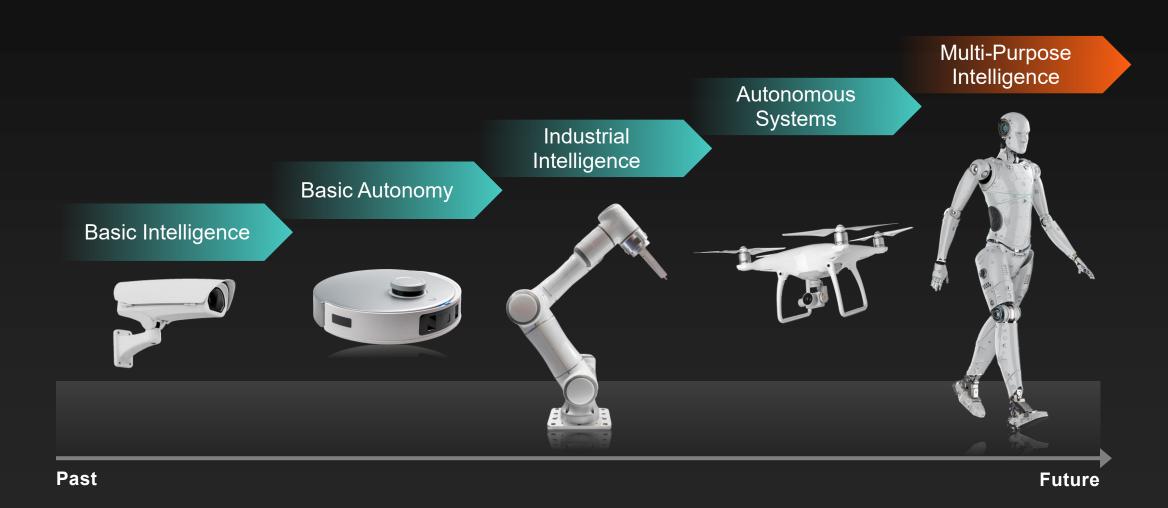


Physical Al: The Next Tectonic Shift





Al is Transforming the Physical World





Physical Al Drives Much Broader Workloads...

Sense, Think, Act and Communicate in Dynamic, Unpredictable Environments









Gather data from environment



Process data and make decisions



Execute commands with motors, drives and actuators



Share data and status internally and externally



...Requiring a Broad Set of Semiconductors

	Customer Needs	Semiconductor Requirements	Physical Al impact on Semiconductor Market	
(iii) Sense	Analog Precision Multimodal Integration	Advanced sensor circuitry, New materials Integration	Exponential increase in number and type of sensors Massively distributed intelligence Explosive growth of motor controllers and actuators Dramatic increase of low power connectivity	
्रहे Think	Ultra-Low Power Optimized Compute	Integrated memory, TinyML configurable workloads		
€ Act	Low Latency & Power	Dense I/O, IP algorithms, architectural innovation, SerDes Actuators IVR		
Communicate	Secure, Multi-standard RF Connectivity	Better analog, RF more bands, Secure IP blocks		

GF's Portfolio Well Positioned to Address Critical Al Needs

GF: Essential Enabler of the Physical Al Transition

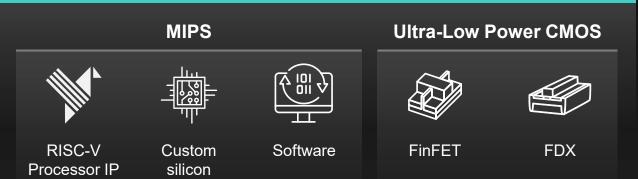


GF's Portfolio Uniquely Positioned for Al Scaling

Leading platforms for Data Center Al Infrastructure

Leading platforms for Physical Al applications





Multi-purpose platforms powering, connecting and enabling applications from cloud to edge



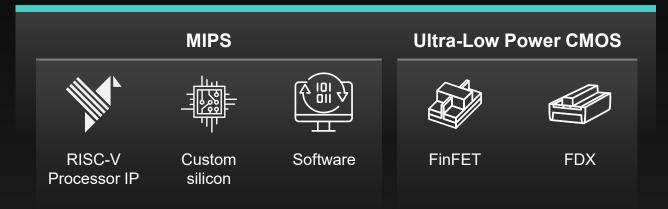


GF's Portfolio Uniquely Positioned for Al Scaling

Leading platforms for Data Center Al Infrastructure

Silicon Photonics Advanced Packaging Pluggables Co-packaged optics Advanced packaging

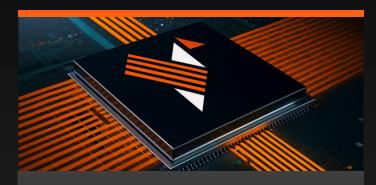
Leading platforms for Physical Al applications



Multi-purpose platforms powering, connecting and enabling applications from cloud to edge



MIPS is Powering the Next Wave: Physical Al



Original RISC Pioneer; Early Leader In Multithreading



A Strong Heritage That Includes Sony PlayStation 2, Nintendo N64, etc.



Shipped 200M+ ADAS SoCs With MobileEye; Deployed in Leading Hyperscaler

RISC-V Processor IP | Software & Tools | Custom Silicon



Physical AI workload focus to enable real-time, event driven computing



Software-first approach to microarchitecture, processor cores, and silicon



Modern customer engagement model with virtual platforms to enable SW/HW co-design and shift-left optimizations



Based on modular & open RISC-V standard instruction set architecture



Silicon design expertise with software enablement for physical AI workloads



MIPS + GF Bring Physical AI to Life

MIPS Workload driven IP & Design



Software-First Processor IP Design



Modular Workload Extensions



Processor IP Optimized for Physical AI



Open Standard Instruction Set Architecture



Architecture Influences Technology





Optimized Process Technologies



World's most feature-rich FinFET



FDX: Lowest power, highest integration



Advanced
Packaging: Size,
power, performance

Benefits of combined capabilities

Ultra-low power process technology (up to 50% benefit PPA)

Industry leading integrated RF & embedded memory (RRAM, MRAM)

Dedicated I/O devices enabling dense SoC integration

Software migration & application development

Data paths & pipelines to process; Key algorithm acceleration

Microarchitecture optimizations for efficiency in ultra-low power process technology



Physical Al Today: Software-Defined Vehicle

Assisted & Autonomous Driving

- Cameras
- Lidar, Radar

Infotainment & Telematics

- Intelligent Cockpit
- Vehicle to Everything Connectivity

SDV Architecture & Network

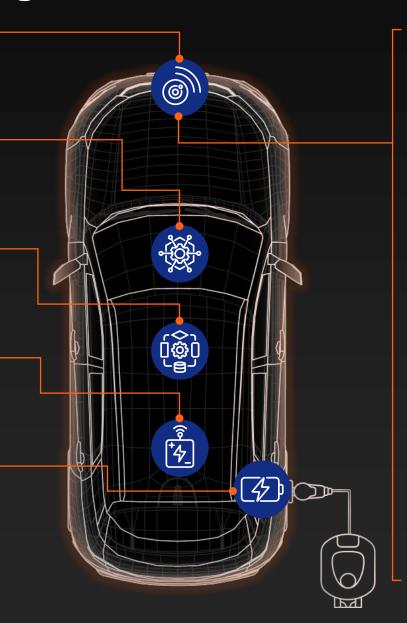
- Domain Controllers
- Zonal Aggregators

Power Train

- Voltage Regulators
- DC-DC Converters

Battery & Power

- Battery Management
- Power Management IC



High Performance Radar

- Single-chip solution requiring:
 - Range > 400m
 - Resolution < 0.1 deg
 - Power < 3W
- 24 120GHz
- Automotive Quality

FDX Advantages

- Industry leading RF output power / efficiency and low noise receiver
- Ultra low leakage with adaptive body bias
- 150C Qualification
- EU and US Sourcing

MIPS Advantages

- Deterministic real-time processing
- Multi-threaded architecture enabling parallel execution of sensor fusion & decision-making workloads



Physical Al for Tomorrow: Humanoid Robot

Sensors

- Vision, Sonics
- Lidar, Radar
- Movement, Position

Distributed Intelligence

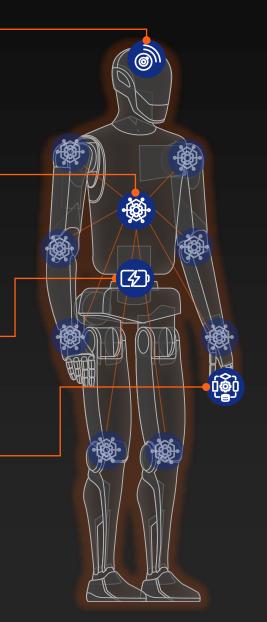
- Multimodal Al for sensor fusion, world perception, and autonomy
- Low-latency event processing, rapid data movement

Battery & Power

- Battery Management
- Power Management IC

Actuators

- Intelligent, precise motions
- · Efficient, accurate movement



Software-Defined System

- Humanoid robot can have 3-4x the semiconductor content of a car
- Extension of distributed intelligence and zonal architecture
- Full sensor suite and > 40 degrees of freedom for human-like dexterity

GF Advantages

- Full suite of advanced memories real time operation and over-the-air update
- World-class RF for sensing and seamless / secure communications
- Energy efficient, safety-certified platforms

MIPS Advantages

- Standard-setting control loops for real time motor control
- Distributed intelligence "nervous system"
- Low-power Al cores and real-time communication backplanes



Unique Value Proposition: Customers' Perspective





GF's innovations with FDX technology truly enable more compute and more real time decision making in an ultra-low power and secure environment.

- Vegard Wollen, CEO



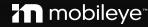
GF's 22FDX platform's power efficiency and enhanced performance effectively **enables our customers to build the next generation** of connected and secure solutions.

— Andy Micallef, EVP/COO



GF's technologies empower the performance, safety, and connectivity essential for next-generation mobility.

- Michael Budde, President



MIPS has been a key collaborator in our success with the EyeQ™ systems-on-chip for ADAS and autonomous vehicles.

- Elchanan Rushinek, EVP



The Market Opportunity



A Significant & Expanded Market Opportunity



Transportation

Personal Autonomous Vehicles

Logistics & Delivery Drones

Autonomous Shipping

Robotaxis

\$18B+

Physical Al SAM by 2030



Humanoid Robots

Smart Glasses

Smart Home Devices

AI-Enabled AR/VR



() ()

Industrial

Industrial Robots

Factory & Agricultural Cobots

Autonomous Defense Systems

Predictive Maintenance Systems



Medical

Robotic Surgeries

Diagnostic Wearables

Medical Smart Sensors

Smart Drug Delivery Systems

Enhanced Business Model

Differentiated Technology



Custom Silicon



IP Licensing & Royalties



Software

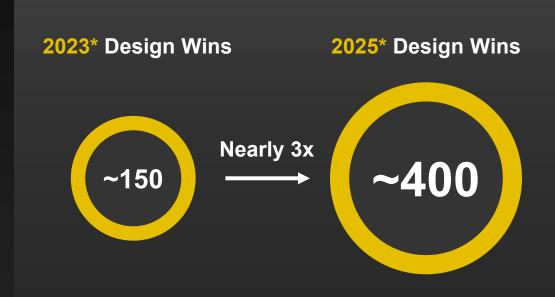
Accretive to GF's Long-Term Goals



Building Upon Our Strong Momentum Today

Accelerating Design Win Growth

Engaged With Leading Industry Players



~95%

2025 YTD Design Wins Were Sole-Sourced

7 of the top 8 Industrial IDMs

3 of the top 4

Leading AI Fabless

All of the top 5

Automotive OEMs

All of the top 6

Mobile Device Fabless & OEMs

All of the top 4

US Hyperscalers

5 of the top 6

Automotive Tier 1s

4 of the top 5

US Aerospace & Defense Prime Contractors

A&P





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