FOR YOU / HIGHLIGHTS • EDITOR’S LETTER

Engineering prototypes and longer robot shifts

AI is moving from drawings and short demonstrations into prototypes, longer factory trials and migration reviews. Each milestone answers a different question: Qualcomm tested silicon data paths, Xiaomi reported an eight-hour station trial, and Aramco closed an equity transaction. None alone establishes delivery at scale.

Separate a successful demonstration from repeatable delivery: tolerances, interventions, requirements coverage and permits each need evidence.

From design to prototype

Manufacturing tolerances and assembly still require review.

OpenAI • engineering research

Near-memory silicon validation

Lab data paths work; the complete product still awaits sampling.

Qualcomm • HBC silicon validation

Equity closes, capacity awaits

The 49% stake is acquired; the 2030 capacity goal still needs delivery.

Aramco • HUMAIN transaction closing

01 / AI companies

2026-11-03 • New

OpenAI tests engineering agents through prototype manufacturing

OpenAI described a device prototype whose enclosure, circuit board and software were designed with Astra. Two employees ran the design experiment in under a week; a manufacturer built a small batch in under a month. OpenAI also announced aerodynamics and crash-safety research with Mazda.

This is research and small-batch prototyping. OpenAI says manufacturing constraints, tolerances and assembly details still required review and iteration. The practical opportunity is faster experimentation, with engineers retaining responsibility for manufacturing approval.

OpenAI • engineering research

2026-11-04 • New

Claude Code 2.1.318 fixes accidental approvals and misleading saves

Claude Code 2.1.318 fixes permission prompts being answered by keys entered before a delayed prompt appeared. It also fixes logout and MCP removal reporting success when configuration could not be saved on a shared network home, and adds login-expiry information.

Teams can retest approval prompts, shared home directories and concurrent logins. The notes still warn that another job can overwrite a saved MCP server; upgrading does not eliminate the need to check concurrent configuration changes.

Anthropic • Claude Code 2.1.318

02 / AI product tracker

Product	Version / date	Changes and sources
Claude Code	2.1.318 2026-11-04 New this issue • stable	This release fixes accidental approvals, shared-home save feedback and login-expiry reporting; see AI companies. Anthropic • Claude Code 2.1.318
Codex CLI	0.167.0-alpha.4 2026-11-03 New this issue • alpha	New alpha tag with no itemized feature notes; no stable-release or new-capability claim. Codex CLI release notes
vLLM	0.33.0rc3 2026-11-02 Recent version • preview	Recent candidate baseline with Beam-1.0 support. The page title is 0.33.0, but the actual tag remains rc3. vLLM release notes

03 / AI chips

2026-11-02 • Past 72 hours

Qualcomm validates HBC silicon; AI250 sampling remains ahead

Qualcomm says its first High Bandwidth Compute silicon exercised the complete memory read/write path and near-memory operations using randomized weights and activations. The architecture brings computation closer to memory to reduce data movement during inference.

This is a silicon-validation milestone. Dragonfly AI250 is expected to sample in the first half of 2027. Performance comparisons include estimates normalized to target conditions; final benefits depend on the product, workload and system configuration.

Qualcomm • HBC silicon validation

04 / Embodied AI

2026-11-03 • New

Xiaomi reports an eight-hour factory robot trial

National Business Daily, reporting a post by Lei Jun, says Xiaomi tested an eight-hour shift at a car-factory station sorting center-console side covers. Xiaomi reports autonomous recovery from exceptions and coordination with production-line systems.

A continuous station trial is closer to factory requirements than a short demo, but this remains a company-reported test. Buyers still need yield, cycle time, intervention counts and repeatability across shifts before drawing wider deployment conclusions.

National Business Daily • Xiaomi robot trial

05 / Infrastructure

2026-11-03 • New

AWS Transform traces mainframe requirements back to code

AWS Transform adds field-level business-function discovery and a requirements coverage report for z/OS COBOL and PL/I modernization. Functions are grouped when they affect the same fields; business rules link to source lines, and requirements link back to those rules.

The feature is available wherever AWS Transform for mainframe is offered. It gives migration teams a way to inspect omissions before implementation. Coverage describes how code was handled; business behavior, edge cases and external dependencies still need acceptance testing.

AWS • mainframe requirements coverage

06 / Policy

2026-10-30 • Seven-day watch

xAI power-plant lawsuit proceeds after dismissal motion fails

On October 30, the Northern District of Mississippi denied defendants' motion to dismiss the Clean Air Act case involving xAI. The court rejected the plant's claimed mobile-source exemption and the constitutional challenge to the citizen suit.

The ruling allows litigation to proceed; it is not a final damages award or shutdown order. For computing projects, access to turbines does not settle the separate question of air permits required for their operation.

US District Court • October 30 order

07 / Business

2026-11-01 • Past 72 hours

Aramco closes its HUMAIN investment; 3 GW remains a plan

Aramco and PIF announced the transaction's close: Aramco acquires 49% of HUMAIN and PIF retains 51%. Aramco's contribution includes about SAR 9.9 billion (USD 2.6 billion) in cash during 2026, plus AI, computing and digital assets.

The cash contribution is not a valuation of the entire transaction. HUMAIN's target of 3 GW of data-center capacity by 2030 remains a plan. Construction, power availability and commissioning are separate milestones after the equity deal closes.

Aramco • HUMAIN transaction closing

2026-11-02 • Past 72 hours

Tutor Intelligence raises a USD 75 million Series B

Silicon Legal, counsel to investor Neo, confirms Neo's participation in Tutor Intelligence's USD 75 million Series B. Andreessen Horowitz led the round, with Union Square Ventures also participating. Tutor researches robotics and deploys robot fleets into production settings.

The amount is for this round, not cumulative funding, revenue or valuation. The transaction adviser confirms investor participation; deployment scale, operating reliability and customer returns still require operating evidence.

Silicon Legal • Neo joins Tutor Series B

08 / AI markets

US watchlist rises as Asian memory and chip names fall

On November 3, Micron rose 2.58% and Sandisk 4.78%, while SK hynix fell 5.03%, Samsung Electronics 4.15% and CXMT 7.00%. Cambricon fell 10.81% and Montage 8.85%. In Hong Kong, Tencent rose 1.27% and SenseTime fell 3.17%.

All four markets last completed November 3, but their closes are asynchronous; the US is on standard time. All 30 prices and changes have source values, retained in USD, CNY, HKD and KRW; delay minutes are unspecified. Attributed excerpts from Stock Analysis form a watchlist, not a sector index. Later news is not used to explain earlier prices.

Memory

Company / ticker	Market / FX	Close	Change	Session / source
Micron / MU	US / USD	855.10	+2.58%	2026-11-03 Micron close · Stock Analysis
Sandisk / SNDK	US / USD	1,126.52	+4.78%	2026-11-03 Sandisk close · Stock Analysis
SK hynix / 000660	KR / KRW	1,398,000	-5.03%	2026-11-03 SK hynix close · Stock Analysis
Samsung Electronics / 005930	KR / KRW	219,500	-4.15%	2026-11-03 Samsung Electronics close · Stock Analysis
CXMT / 688825	CN / CNY	38.80	-7.00%	2026-11-03 CXMT close · Stock Analysis

Storage and components

Company / ticker	Market / FX	Close	Change	Session / source
Western Digital / WDC	US / USD	347.35	+2.59%	2026-11-03 Western Digital close · Stock Analysis
Seagate / STX	US / USD	606.38	+2.13%	2026-11-03 Seagate close · Stock Analysis
Montage Technology / 688008	CN / CNY	150.01	-8.85%	2026-11-03 Montage Technology close · Stock Analysis
GigaDevice / 603986	CN / CNY	250.16	-5.84%	2026-11-03 GigaDevice close · Stock Analysis
Longsys / 301308	CN / CNY	202.20	-5.79%	2026-11-03 Longsys close · Stock Analysis
BIWIN / 688525	CN / CNY	122.40	-7.17%	2026-11-03 BIWIN close · Stock Analysis

Compute and manufacturing

Company / ticker	Market / FX	Close	Change	Session / source
Broadcom / AVGO	US / USD	332.13	+3.07%	2026-11-03 Broadcom close · Stock Analysis
TSMC ADR / TSM	US / USD	404.80	+1.55%	2026-11-03 TSMC ADR close · Stock Analysis
NVIDIA / NVDA	US / USD	206.69	+2.29%	2026-11-03 NVIDIA close · Stock Analysis
AMD / AMD	US / USD	483.90	+3.65%	2026-11-03 AMD close · Stock Analysis
Intel / INTC	US / USD	60.55	+0.97%	2026-11-03 Intel close · Stock Analysis
Cambricon / 688256	CN / CNY	767.93	-10.81%	2026-11-03 Cambricon close · Stock Analysis
Hygon / 688041	CN / CNY	170.00	-3.95%	2026-11-03 Hygon close · Stock Analysis
SMIC / 00981	HK / HKD	42.62	-2.29%	2026-11-03 SMIC close · Stock Analysis

Networking, power and cooling

Company / ticker	Market / FX	Close	Change	Session / source
Arista Networks / ANET	US / USD	169.91	+3.52%	2026-11-03 Arista Networks close · Stock Analysis
Vertiv / VRT	US / USD	235.97	+5.23%	2026-11-03 Vertiv close · Stock Analysis

Platforms and applications

Company / ticker	Market / FX	Close	Change	Session / source
Microsoft / MSFT	US / USD	520.99	+2.74%	2026-11-03 Microsoft close · Stock Analysis
Alphabet / GOOGL	US / USD	280.03	+0.37%	2026-11-03 Alphabet close · Stock Analysis
Meta / META	US / USD	621.03	+2.36%	2026-11-03 Meta close · Stock Analysis
Amazon / AMZN	US / USD	250.69	+2.06%	2026-11-03 Amazon close · Stock Analysis
iFlytek / 002230	CN / CNY	37.43	-0.05%	2026-11-03 iFlytek close · Stock Analysis
Baidu / 09888	HK / HKD	74.70	-1.26%	2026-11-03 Baidu close · Stock Analysis
Alibaba / 09988	HK / HKD	99.55	+0.10%	2026-11-03 Alibaba close · Stock Analysis
Tencent / 00700	HK / HKD	397.20	+1.27%	2026-11-03 Tencent close · Stock Analysis
SenseTime / 00020	HK / HKD	1.07	-3.17%	2026-11-03 SenseTime close · Stock Analysis

Watch manufacturing validation, repeat robot shifts, chip sampling and actual commissioning of computing projects.