

Timeline of Key Tech Milestones (2010–2025)

2010–2014

- **Feb 2010 – Microsoft Launches Azure Cloud Platform:** Microsoft's Azure cloud service became generally available, offering on-demand computing and storage to customers in 21 countries ¹. *Why it matters:* Along with earlier services like Amazon Web Services, Azure helped popularize cloud computing – allowing businesses and developers to rent computing power over the internet instead of running their own servers, which made apps and services more scalable and accessible ¹ ².
- **Oct 2011 – Apple Launches Siri Voice Assistant:** Apple introduced **Siri** alongside the iPhone 4S, making it the first widely available virtual voice assistant on a smartphone ³. *Why it matters:* Siri familiarized millions of people with using voice commands to interact with technology, paving the way for AI assistants in daily life – from asking for the weather to setting reminders – and inspiring competing services like Alexa and Google Assistant ⁴.
- **Mar 2012 – Amazon Acquires Kiva Robotics for Warehouses:** Amazon purchased **Kiva Systems**, a company that makes mobile robots to automate warehouse order fulfillment ⁵. *Why it matters:* This deal brought robotics into Amazon's fulfillment centers, transforming “pick and pack” operations from slow-moving humans to fleets of tireless robotic workers ⁶. It massively sped up e-commerce shipping and sparked a warehouse automation boom that now underpins the rapid delivery services people rely on ⁶.
- **Aug 2012 – NASA's Curiosity Rover Lands on Mars:** NASA's **Curiosity** rover touched down on Mars using a daring “sky crane” system after a 352-million-mile journey ⁷. *Why it matters:* Curiosity was the largest, most capable rover sent to Mars at that time and soon found chemical and mineral evidence that Mars once had habitable conditions (ancient environments that could have supported microbial life) ⁸ ⁹. Its successful landing and discoveries advanced our understanding of the Red Planet and captivated the public with footage of its journey (“seven minutes of terror”) and science mission.
- **Nov 2014 – Amazon Alexa Brings AI Assistants Home:** Amazon released the **Echo** smart speaker with **Alexa**, a voice-controlled AI assistant, in late 2014. Alexa could play music, answer questions, and control smart-home devices in response to spoken commands. *Why it matters:* Alexa (soon followed by Google Home and others) made voice assistants a common household technology, letting people interact with the internet and their appliances in a natural, hands-free way – from checking the news to dimming the lights – and accelerating the trend of AI-powered smart homes ⁴.

2015–2019

- **Apr 2015 – Tesla Unveils the Powerwall Home Battery:** Electric carmaker Tesla announced the **Powerwall**, a wall-mounted lithium-ion battery pack for homes ¹⁰ ¹¹. The rechargeable battery stores energy from solar panels or the grid for use when needed. *Why it matters:* Home batteries make renewable solar power more practical by storing energy for nighttime or outages, and they help stabilize the electric grid ¹⁰ ¹². Tesla's Powerwall launch drove wider interest and investment in energy storage, crucial for enabling clean energy use at the household level.
- **July 2015 – Ethereum Blockchain Goes Live:** The **Ethereum** network launched publicly on July 30, 2015, introducing the world to *smart contracts* – self-executing code on a decentralized blockchain ¹³. Unlike Bitcoin, Ethereum was designed to be programmable, allowing anyone to deploy decentralized applications (dApps) on the network. *Why it matters:* Ethereum's programmable blockchain opened the door for innovations like decentralized finance (DeFi) apps and NFTs (blockchain-based digital collectibles), massively expanding what could be done with blockchain technology beyond simple currency ¹⁴ ¹⁵. It paved the way for the later Web3/crypto ecosystem and new models of online trust and value exchange.
- **Dec 2015 – SpaceX Makes First Rocket Landing:** SpaceX successfully landed the first stage of its Falcon 9 rocket back on Earth after launching satellites to orbit ¹⁶. The booster touched down vertically at Cape Canaveral on December 21, 2015. *Why it matters:* This was the first-ever recovery of an orbital-class rocket booster, proving that rockets can be reused ¹⁶. Rocket reusability had long been a dream for lowering the cost of spaceflight. SpaceX's breakthrough landing (hailed as a “revolutionary moment” ¹⁷) marked a turning point toward cheaper, more frequent launches – a key step enabling more ambitious projects like affordable satellite networks and future crewed missions ¹⁸.
- **Mar 2016 – AlphaGo Beats Human Champion in Go:** Google DeepMind's **AlphaGo** AI defeated Lee Sedol – one of the world's top Go players – in a 5-game match, winning 4–1 ¹⁹ ²⁰. Go is an ancient East Asian board game renowned for its complexity (there are more possible moves than atoms in the universe), and top human players had long been considered beyond the reach of AI. *Why it matters:* AlphaGo's victory was a watershed moment for artificial intelligence ¹⁹. It demonstrated that AI techniques (deep neural networks and reinforcement learning) could tackle extremely complex, creative tasks thought to be uniquely human. This triumph spurred massive global interest and investment in AI capabilities, from healthcare to finance, and heralded a new wave of AI systems solving real-world problems.
- **Feb 2016 – Boston Dynamics' Atlas Robot Shows Human-Like Agility:** A viral video released by Boston Dynamics showed the new version of **Atlas** (a bipedal humanoid robot) trudging through snow, deftly lifting and stacking boxes, and even getting up by itself after being pushed to the ground ²¹. The footage of Atlas being shoved with a hockey stick and recovering balance left Twitter “in awe of our new robot overlords” ²² ²³. *Why it matters:* The Atlas video highlighted enormous strides in robot locomotion and balance. Its human-like agility and resilience in rough terrain – once the stuff of sci-fi – demonstrated how far real robotics had come ²³. This impressed the public (and sparked quips about “the end of humanity” in jest), while showing that robots could soon handle physical tasks in warehouses, disaster zones, and other human environments that once seemed impossible for machines.

- **Oct 2016 – Mobile Internet Usage Surpasses Desktop:** For the first time, mobile devices (smartphones and tablets) accounted for over half of global web browsing. In October 2016, mobile and tablet browsing made up 51.3% of internet use vs 48.7% on desktops ²⁴. *Why it matters:* This was a tipping point in the digital era – the **mobile-first** internet. It signaled that phones had overtaken PCs as the primary way people go online worldwide. The shift forced businesses to prioritize mobile-friendly websites and apps, and it accelerated the growth of mobile services (from social media to banking) optimized for on-the-go use ²⁵ ²⁶. It also reflected how smartphones had become ubiquitous, affordable computing devices for billions, including as the *only* internet access for many in developing regions.
- **Dec 2018 – First Driverless Taxi Service Debuts:** Alphabet's **Waymo** launched "Waymo One," the first commercial self-driving taxi service, in the Phoenix, Arizona area in December 2018 ²⁷. Like Uber or Lyft, customers could summon a ride with a smartphone app – but in Waymo's case, a robotic car would arrive to drive itself (initially with a safety driver in the seat as backup) ²⁸. *Why it matters:* This marked a major milestone in autonomous vehicles. Waymo One was the first time the public could pay for rides in a self-driving car on open roads, moving robo-taxis out of the lab and into everyday life ²⁹. It demonstrated the rapid progress in AI-driven mobility and hinted at a future where autonomous ride-hailing could become commonplace, potentially reducing accidents and changing how we think about car ownership and transportation.
- **Apr 2019 – First 5G Mobile Networks Launch:** Carriers in South Korea activated the world's first national **5G** networks in April 2019, heralding the start of global 5G rollouts ³⁰. Around the same time, early 5G services also went live in parts of the US, China, and Europe. *Why it matters:* **5G** (fifth-generation wireless) offers much faster data speeds and lower latency than 4G, enabling smoother streaming, responsive real-time gaming, and connecting many more devices at once. Its launch was the beginning of a new era of connectivity ³¹. 5G's capabilities are expected to power technologies like augmented reality, autonomous cars (which need instant communication), smart cities with billions of IoT sensors, and remote healthcare (e.g. telesurgery) by providing the robust wireless infrastructure they require. The 2019 deployments were a first step in a multi-year worldwide transition to 5G that is still ongoing.
- **Nov 2019 – Edge Computing Moves into the Mainstream:** By 2019, tech companies were increasingly deploying **edge computing** – placing servers and mini data centers closer to end-users and devices. This was driven by the explosion of Internet of Things (IoT) gadgets and the need for real-time processing. *Why it matters:* Instead of sending all data to the cloud, edge computing processes data locally (for example, in a cell tower or on an on-site gateway), reducing latency and bandwidth use. This trend became prominent as IoT grew. It means smarter, faster responses for applications like industrial machines, smart home devices, and interactive gaming. For instance, enterprises began putting compute power at the network's "edge" (even in rural areas or factory floors) to handle the massive demand for instant data crunching ³² ³³. In short, the rise of edge computing in the late 2010s laid groundwork for more resilient and responsive cloud services that power everything from voice assistants to autonomous drones.

2020–2025

- **Dec 2020 – Lithium-Ion Battery Prices Fall ~90% (EVs Go Mainstream):** By 2020, the cost of lithium-ion battery packs had plummeted to around \$137 per kilowatt-hour on average – **an 89%**

drop from 2010, when batteries cost over \$1,100/kWh ³⁴. (For perspective, prices around \$100/kWh are seen as a tipping point for electric cars to match gas cars in cost.) *Why it matters:* This **historic price decline** in batteries made electric vehicles and large-scale energy storage far more affordable ³⁵. In the 2010s, cheaper, better batteries enabled the boom in EV adoption (Tesla and others) and allowed solar and wind energy to be stored for use when the sun isn't shining or wind isn't blowing. By 2020, mass-market long-range electric cars had arrived, and global EV sales were accelerating – a critical step toward cleaner transportation. Cheaper batteries also mean longer-lasting smartphones, laptops, and new possibilities like electric aviation in the future.

- **May 2020 – First Private Company Sends Astronauts to Orbit:** SpaceX made history on May 30, 2020, with **Demo-2**, the first crewed flight of its Crew Dragon spacecraft. A Falcon 9 rocket carried NASA astronauts Doug Hurley and Bob Behnken to the International Space Station – launching from U.S. soil for the first time since the Shuttle program ended in 2011 ³⁶. It was also the first time a *commercially built and operated* spacecraft carried humans to orbit ³⁶. *Why it matters:* This mission, part of NASA's Commercial Crew Program, **ushered in a new era of human spaceflight** built on public-private partnership. It demonstrated that a private company can safely launch astronauts, marking an important step toward lower-cost, routine access to space ³⁷ ³⁸. The success of Crew Dragon has since opened the door to operational astronaut taxi flights, space tourism (such as SpaceX's Inspiration4 mission), and expanded ambitions for crewed missions to the Moon and Mars in the coming years.
- **Nov 2020 – Apple's M1 Chip Brings ARM to Laptops:** Apple launched the **M1** chip in November 2020, its first custom processor for Mac computers ³⁹. Based on energy-efficient ARM architecture (used in smartphones), the M1 system-on-chip integrated the CPU, GPU, and neural engine on a 5nm chip with 16 billion transistors ³⁹. *Why it matters:* The M1 delivered a **massive leap in performance and battery life** for laptops. For example, MacBook Air and Pro models with M1 earned praise for being dramatically faster than their Intel-based predecessors while running cool and getting up to 2× longer battery life ⁴⁰ ⁴¹. This proved that ARM-based chips could rival or beat traditional PC chips, triggering an industry shift – other laptop makers and even server manufacturers began exploring ARM designs for their efficiency. The M1's success also blurred the line between mobile and desktop computing, since the same chip technology powers iPhones, iPads, and now Macs, allowing software to work seamlessly across devices.
- **June 2020 – Boston Dynamics' Robot Dog Goes on Sale:** After years of jaw-dropping demo videos, **Boston Dynamics** made its four-legged robot **Spot** available for commercial purchase in mid-2020 for \$74,500 ⁴². The agile "robot dog" can walk, trot, climb stairs, and navigate obstacles, carrying sensors or payloads. *Why it matters:* This was one of the first times an advanced, human-like mobile robot became *commercially available* to any business ⁴². Spot's sale marked a shift from research to real-world use: companies began deploying these robots for tasks like industrial inspection, mapping construction sites, and public safety patrols. It demonstrated that legged robots had matured enough to handle work in unpredictable human environments, going "pretty much anywhere a human can" (though no ladders, as Boston Dynamics quipped) ⁴³. Spot's arrival in the market underscored the coming era of practical robotics – performing dirty, dull, or dangerous jobs and augmenting the human workforce.
- **Dec 2020 – OpenAI's GPT-3 Shows AI Language Mastery:** In 2020, artificial intelligence made a dramatic leap in language skills with **GPT-3** (Generative Pre-trained Transformer 3), a model from

OpenAI. Boasting 175 billion parameters, GPT-3 could generate human-like text – producing essays, dialogues, or computer code from simple prompts. Developers gained access in mid-2020, and its uncanny ability to mimic writing styles or answer questions made headlines. *Why it matters:* GPT-3 demonstrated an **AI system with a broad, general language capability** that surprised even experts with its fluency. It could carry out tasks it wasn't explicitly trained for, like writing poetry, summarizing emails, or creating website layouts from descriptions. This was a proof-of-concept that very large neural networks trained on massive data can perform diverse tasks, potentially reducing the need for task-specific AI systems. GPT-3's release foreshadowed the 2022–2023 surge of public-facing AI (like ChatGPT) and sparked important discussions about AI's role in creative work, misinformation, and how to ensure such powerful models are used ethically.

- **July 2021 – First Lab-Proven Solid-State EV Battery:** Toyota revealed that it had built and begun testing a prototype car powered by a **solid-state battery**, a long-sought battery technology breakthrough ⁴⁴. The prototype, completed in mid-2020 and officially announced in 2021, actually drove on a test track using an all-solid-state battery pack ⁴⁴. *Why it matters:* Solid-state batteries use a solid electrolyte instead of the liquid found in today's lithium-ion cells, and they promise **major improvements** – faster charging, higher energy density (longer range), and improved safety (far less flammable) ⁴⁵. Toyota's demo, one of the first of a solid-state battery in a running vehicle, signaled that this technology is getting closer to practical reality ⁴⁵. Solid-state batteries could eventually make electric cars go farther and charge quicker than ever, accelerating the EV revolution. They are also seen as a potential game-changer for consumer electronics and even aircraft, though challenges remain in scaling up production.
- **July 2021 – First Commercial Sodium-Ion Battery Announced:** Chinese battery giant CATL (Contemporary Amperex Technology Co.) unveiled its first-generation **sodium-ion battery** in July 2021 ⁴⁶. Instead of using scarce lithium, this rechargeable battery uses abundant sodium ions. CATL's cells achieved an energy density of about 160 Wh/kg and could charge to 80% in 15 minutes at room temperature ⁴⁷. *Why it matters:* Sodium-ion batteries offer a cheaper, more sustainable alternative to lithium-ion by using widely available materials (sodium from salt). While they store slightly less energy, they excel in cold climates and can charge very fast ⁴⁷ ⁴⁸. CATL's announcement – with plans for mass production by 2023 – showed the industry actively diversifying beyond lithium ⁴⁸. In practical terms, sodium-ion batteries could lower the cost of electric vehicles and grid storage, reduce dependence on rare minerals like cobalt and lithium, and improve performance in subzero temperatures ⁴⁷ ⁴⁹. This milestone highlighted the real progress in next-gen battery R&D that will shape the future of clean energy and transportation.
- **Mar 2021 – NFT Art Fetches \$69 Million:** A digital artwork by artist Beeple (Mike Winkelmann), comprised of a collage of 5,000 images, was sold as a **non-fungible token (NFT)** for an astonishing \$69.3 million in a Christie's auction ⁵⁰. This March 2021 sale of *Everydays: The First 5000 Days* made it the most expensive NFT at the time and one of the priciest artworks ever by a living artist. *Why it matters:* The blockbuster sale brought mainstream attention to the **NFT craze**. NFTs are unique digital tokens on a blockchain that confer ownership of a specific digital item (art, collectibles, etc.). Beeple's sale was a **"watershed moment for NFTs"**, grabbing headlines worldwide ⁵⁰. It signaled that digital art backed by NFTs had arrived as a legitimate new market. In 2021, NFTs exploded in popularity – people were minting and trading everything from artwork and music to sports highlight clips as NFTs. This trend created new revenue streams for creators (artists, musicians, game designers) and also raised debates about crypto energy use, digital ownership rights, and a potential

speculative bubble. Regardless of the volatility, the NFT boom has had a lasting impact on how we think about owning and valuing digital goods.

- **2022 – AI-Generated Art Goes Mainstream:** In 2022, a new breed of AI systems began allowing anyone to create images simply by describing them in words. OpenAI led the way with **DALL-E 2** (announced April 2022), soon followed by open-source models like **Stable Diffusion** (released in August 2022) ⁵¹. These text-to-image generators could produce everything from photorealistic scenes to paintings in famous artists' styles, based on a user's prompt. *Why it matters:* **AI image generation** reached the public in a big way – by late 2022, millions of people were using tools like DALL-E 2, Stable Diffusion, and Midjourney to create art and images never seen before. The technology went *mainstream*, with over a million users generating 2 million+ images *per day* with DALL-E 2 after its public release ⁵². This opened up creative expression to people regardless of traditional art skills and has applications in design, marketing, entertainment, and more. However, it also sparked new questions about intellectual property (since AIs learned from human-made art), authenticity, and the future of creative jobs. In short, 2022 will be remembered as the year AI became a tool in the artist's palette – accessible to everyday users – fundamentally transforming digital art and creativity ⁵¹.
- **Nov 2022 – ChatGPT Brings AI Chat to the Masses:** OpenAI released **ChatGPT** (a chatbot powered by the GPT-3.5 language model) to the public for free in late November 2022. Within just 5 days, it had over 1 million users, making it one of the fastest-adopted tech services ever ⁵³. By January 2023, it reached 100 million monthly users – the **fastest-growing consumer app in history** at that time ⁵⁴ ⁵⁵. *Why it matters:* ChatGPT demonstrated an AI that can converse and answer questions with uncanny fluency on almost any topic. People used it to draft emails and essays, write code, get cooking advice, and much more – often unaware they were talking to a machine. This easy conversational interface showed how far AI's natural language abilities had advanced, and it truly captured the public imagination. The "ChatGPT moment" in late 2022 sparked an industry-wide AI boom: tech companies raced to integrate similar AI assistants into their products (search engines, office software, customer service, etc.). It also raised awareness and concern about AI's societal impact – from education (cheating on essays) to jobs (automating tasks) and the spread of misinformation. Overall, ChatGPT's launch marked a turning point where AI became a daily tool for millions, heralding a new wave of AI-infused applications in everyday life ⁵³.
- **Aug 2023 – Robotaxis Get Green Light for 24/7 Service:** California regulators approved **Waymo** and **Cruise** to operate their self-driving taxi fleets in San Francisco around the clock, with no human drivers, and to charge fares for any rider (effective August 2023) ⁵⁶. After a lengthy public hearing, the state's Public Utilities Commission voted to allow these autonomous vehicles to offer rides citywide at any time of day, essentially functioning like Uber/Lyft but with AI at the wheel ⁵⁶ ⁵⁷. *Why it matters:* This was a **major milestone** for autonomous driving. It signaled that driverless car services had proven reliable enough to begin real commercial operations in a dense, complex urban environment. Waymo's co-CEO called it "a major moment in the history of autonomous vehicles" and Cruise's CEO hailed it as "a huge milestone for the AV industry" ⁵⁸. It shows how years of R&D (and billions invested) are turning into real transportation options. Riders in parts of San Francisco can now routinely see and use robo-taxis. While incidents and regulatory scrutiny continue (and the rollout is cautious), the approval is a significant step toward a future where fleets of driverless taxis may become normal in cities – promising benefits like reduced accidents and mobility for those unable to drive, even as debates continue over safety, job impacts, and urban congestion.

Each of the above milestones contributed to shaping the modern tech landscape – from how we communicate and get around, to how we power our devices and explore space. Together, they illustrate an era of rapid innovation, with advances in AI, automation, and connectivity increasingly touching everyday life in visible ways. Each event built toward the world of 2025: one where smartphones are ubiquitous, AI is writing and drawing, cars can drive themselves (in some places), our homes and industries run on powerful batteries and cloud brains, and private rockets regularly reach orbit. It's a remarkable evolution that happened in just 10–15 years, and these milestones help tell the story of how we got here.

Sources: The information above is drawn from a variety of reputable sources, including news articles, press releases, and scientific organization reports, each cited in the text with **[source]** references for verification and further reading. 1 10 16 19 23 24 27 30 34 36 39 42 44 46 50 51 53 56

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