

Title of article	Description of article	link of article	Image name
Breathing Room in the Budget	But are these tools really all that complicated in an age when we can buy a box full of microcontrollers and sensors from an online electronics distributor for tens of dollars? A researcher at Harvard Medical School asked this same question and saw an opportunity to make a tool that was once out of reach for many accessible to all. He developed an open-source, low-cost, microprocessor-controlled mouse	https://www.hackster.io/news/breathing-room-in-the-budget-8d421c6458e7	Article1.jpg
Vintage Electric Typewriter Becomes an RS232 Linux Terminal	Alwnlns turned an IBM Selectric II electric typewriter into a paper terminal that can communicate in with a modern Linux computer.	https://www.hackster.io/news/vintage-electric-typewriter-becomes-an-rs232-linux-terminal-9b7edc3c5ba6	Article2.jpg
Alex Fiel's Wigglegram Lens V2 Turns a Full-Frame Camera Into a Toy Pseudo-3D Snapper	Self-described creative technologist Alex Fiel has revisited an old and unusual project to create a better, more flexible version: meet the Wigglegram Lens V2, built for the Open.Sauce '23 festival in San Francisco.	https://www.hackster.io/news/alex-fiel-s-wigglegram-lens-v2-turns-a-full-frame-camera-into-a-toy-pseudo-3d-snapper-f434bb0ce2b9	Article3.jpg
STMicro Launches a Tiny Low-Power Thermal Sensor as an Alternative to the Classic Passive Infrared	STMicroelectronics is hoping to temp engineers away from the tried-and-tested passive infrared (PIR) motion sensor with a new low-power lensless thermal sensor, the STH534PF80 — offering embedded presence and motion detection capabilities.	https://www.hackster.io/news/stmicro-launches-a-tiny-low-power-thermal-sensor-as-an-alternative-to-the-classic-passive-infrared-eeab6c9d648a	Article4.jpg
Intel Launches 30 More Pre-Trained AI "Reference Kits," Including Transcription, Chat, and More	Intel has announced that its pre-trained open source artificial intelligence (AI) reference kit releases now number more than 30, including new models for disease prediction, medical imaging diagnostics, traffic camera object detection, and credit card fraud detection.	https://www.hackster.io/news/intel-launches-30-more-pre-trained-ai-reference-kits-including-transcription-chat-and-more-7e238695dd2a	Article5.jpg
A New Choice in Voice	Not wanting to wait for the perfect product to be commercially produced, engineer Justin Alvey took matters into his own hands and built a custom smart speaker. And it is not just customized to suit Alvey's tastes, rather it is an open platform that can be programmed with the Arduino IDE.	https://www.hackster.io/news/a-new-choice-in-voice-a5d7a8964deb	Article6.jpg
PSP Receives Raspberry Pi Upgrade	Tired of playing outdated games on the psp?What if it could play any game released before the new millennium? That's what othermod enabled with his PSPi 6 Raspberry Pi upgrade.	https://www.hackster.io/news/psp-receives-raspberry-pi-upgrade-e36d397adbff	Article7.jpg
A New Theory of Wireless Power Transfer Delivers a Big Gain in Efficiency Over Long Distances	Researchers at Aalto University in Finland have found a way to boost the efficiency of wireless power transfer (WPT) systems over longer distances — suppressing unwanted radiation losses to reach 80 percent efficiency at distances up to five times the length of the antenna.	https://www.hackster.io/news/a-new-theory-of-wireless-power-transfer-delivers-a-big-gain-in-efficiency-over-long-distances-01a734a4f22a	Article8.jpg
New Flexible N-Type Semiconductors Could Usher in a New Era of Truly Flexible Integrated Circuits	Researchers from Pennsylvania State University, the University of Houston, Pusan National University, the Ulsan National Institute of Science and Technology (UNIST), Nanjing's Southeast University, Northwestern University, and Flexterra have developed a new flexible n-type semiconductor, which they say could lead to soft and stretchy electronics for everything from human-machine interfaces to robotic sensing systems.	https://www.hackster.io/news/new-flexible-n-type-semiconductors-could-usher-in-a-new-era-of-truly-flexible-integrated-circuits-0f850e836e1c	Article9.jpg
Easily Spoof Bambu Labs 3D Printer Build Plate ArUco Tags	Bambu Labs is a relatively new player in the 3D printing industry, but they've made a massive impact with their intuitive and user-friendly machines. To alleviate many of the headaches normally associated with 3D printing, Bambu Labs integrates many smart features.	https://www.hackster.io/news/easily-spoof-bambu-labs-3d-printer-build-plate-aruco-tags-d8319c9eee19	Article10.jpg
Flipper Zero, the "Hacker's Multi-Tool," Gets an Official App Store for Easier Customization	Flipper Devices has announced the launch of an "app store," as it looks to make it's hacker's multi-tool Flipper Zero devices easier for users to customize.	https://www.hackster.io/news/flipper-zero-the-hacker-s-multi-tool-gets-an-official-app-store-for-easier-customization-5980e96b274e	Article11.jpg
Changing Lives Together	Hackster has teamed up with ETH Zurich along with partners Blues, Google, M5Stack, PCBWay, and Useful Sensors to launch the Build2gether Inclusive Innovation Challenge! This is your opportunity to showcase your skills in developing assistive technologies that have the potential to transform the lives of millions of people.	https://www.hackster.io/news/changing-lives-together-d7911a6c5638	Article12.jpg
Silicon Labs Announces the Addition of CircuitPython Support to Its xG24 Microcontroller Boards	Silicon Labs has announced official support for CircuitPython, Adafruit's educational fork of MicroPython, on its xG24-family development boards — including SparkFun's recently-released Thing Plus Matter.	https://www.hackster.io/news/silicon-labs-announces-the-addition-of-circuitpython-support-to-its-xg24-microcontroller-boards-3344af2623b3	Article13.jpg
Arduino and Espressif Partner Up for the Low-Cost IoT-Friendly Nano ESP32 Dev Board	Arduino has announced the launch of a new Nano-format development board, this time moving away from Microchip in favor of being powered by an Espressif ESP32-S3 — offering both Wi-Fi and Bluetooth Low Energy (BLE) connectivity in a breadboard-friendly layout for just \$18.	https://www.hackster.io/news/arduino-and-espressif-partner-up-for-the-low-cost-iot-friendly-nano-esp32-dev-board-8c171f5f1880	Article14.jpg
Ivan Miranda Builds a 3D Printer Large Enough to Duplicate Himself	Over the years, Ivan Miranda has built several huge custom 3D printers and they're always quite impressive. But his latest project takes the cake. It is an absolutely gargantuan 3D printer that is big enough for Miranda to duplicate himself.	https://www.hackster.io/news/ivan-miranda-builds-a-3d-printer-large-enough-to-duplicate-himself-538d8f3661cc	Article15.jpg
Scoop's 250 Farad Capacitor Provides Backup Power to Deliver That Last Important Message	Blues make embeddable IoT devices that connect to their Notehub with Wi-Fi or cellular connectivity. Blues testing has shown that Scoop can power a Notecard for 200 wireless connections to their Notehub and almost four hours of continuous usage.	https://www.hackster.io/news/scoop-s-250-farad-capacitor-provides-backup-power-to-deliver-that-last-important-message-fb5da1d65c03	Article16.jpg
3D-Printed RC Car	Logan57 (AKA Creating Crafts) designed a smallish scale rc vehicle with a small servo that turns the car's front wheels left and right, and a DC motor to propels it down the street. This allows the rc car to travel and turn at different speeds	https://www.hackster.io/news/3d-printed-rc-car-e43886f8c914	Article17.jpg
Computer Atelier Keegan McNamara Builds "Beautiful, Serene" Systems From Wood and Leather	Self-styled "computer atelier" Keegan McNamara has put together a "serene computer" for a friend, constructed from wood and leather — and is hoping to turn it into a business for those who need something bespoke on their desk.	https://www.hackster.io/news/computer-atelier-keegan-mcnamara-builds-beautiful-serene-systems-from-wood-and-leather-e301969f663f	Article18.jpg
This Flexible, Transparent MXene OLED Display Scrubs Up Well — Even After Hours Under Water	Researchers from the Korea Advanced Institute of Science and Technology (KAIST), Gachon University, and Korea's National Nano Fab Center, have developed an organic light-emitting diode (OLED) display with a difference: the MXene-based device is transparent, flexible, washable, and can even work under water.	https://www.hackster.io/news/this-flexible-transparent-mxene-oled-display-scrubs-up-well-even-after-hours-under-water-9b0905d0d675	Article19.jpg

AI Could Do That Blindfolded	Engineers at the Hong Kong University of Science and Technology and University of California San Diego took on the challenge of building a robotic hand that can perform complex object manipulations, but without expensive or otherwise impractical sensing systems	https://www.hackster.io/news/ai-could-do-that-blindfolded-aed3992e79b1	Article20.jpg
AAEON Unveils New Raspberry Pi-Like Intel Alder Lake SBCs — "The World's Smallest," It Claims	Embedded computing specialist AAEON has announced the impending launch of a Raspberry Pi-like single-board computer with a difference: it's powered by a choice of three Intel x86-64 processors and up to 8GB of LPDDR5 memory.	https://www.hackster.io/news/aaeon-unveils-new-raspberry-pi-like-intel-alder-lake-sbcs-the-world-s-smallest-it-claims-8f3735705779	Article21.jpg
Rumbledethumps' Pico computer 6502 Graduates From the Breadboard to Become a True Single-Board Computer	Pseudonymous maker and retro-computing enthusiast "Rumbledethumps" has built a new revision of their Pico computer 6502, a vintage-themed design which cuts down on the chip count by packing two Raspberry Pi Pico boards — and which is now a true single-board computer, having graduated from its breadboard prototyping stage.	https://www.hackster.io/news/rumbledethumps-pico-computer-6502-graduates-from-the-breadboard-to-become-a-true-single-board-computer-72da0ada83d9	Article22.jpg
UnaBiz Joins the LoRa Alliances, Partners with Semtech for Sigfox OG Support	UnaBiz, fresh from its acquisition of Sigfox in 2022, has announced its joining of the LoRa Alliance as a contributor — and partnerships with companies including Semtech to bring Sigfox OG technology to existing LoRa platforms.	https://www.hackster.io/news/unabiz-joins-the-lora-alliances-partners-with-semtech-for-sigfox-og-support-c726b0f553c4	Article23.jpg
When the Going Gets Tough, Hit the GASS	Researchers at Carnegie Mellon University have developed a Gecko Adhesion Based Sea Star (GASS) Crawler robot that can swim and crawl on wet surfaces. As the name implies, elements of the robot were inspired by the gecko and the sea star.	https://www.hackster.io/news/when-the-going-gets-tough-hit-the-gass-8abc08a6a6a7	Article24.jpg
Compact Directly-Printed Electronics Could Make Future Spacecraft Smaller, Smarter	Engineers at NASA are looking to make the most of the limited space in most space missions by turning every available surface into functional electronics — printed directly onto the walls and other structures.	https://www.hackster.io/news/compact-directly-printed-electronics-could-make-future-spacecraft-smaller-smarter-7a6c6c536208	Article25.jpg
Edge Impulse Adds NVIDIA TAO Toolkit Support, with Full Pre-Trained Model Access	Edge Impulse has announced that it has integrated support for NVIDIA's TAO Toolkit low-code framework for rapid artificial intelligence development into its edge AI platform, including full access to NVIDIA's pre-trained models.	https://www.hackster.io/news/edge-impulse-adds-nvidia-tao-toolkit-support-with-full-pre-trained-model-access-4e3bcac3ef01	Article26.jpg
Guy Dupont's HotClasps Aim to Bring Back the HitClips Player — And Now Boast Bluetooth Support	Guy Dupont is single-handedly trying to bring back the HitClips craze, designing a USB-programmable system for recording your own cartridges — and a Bluetooth-capable cartridge for those who prefer their early-2000s lo-fi music delivered wirelessly.	https://www.hackster.io/news/guy-dupont-s-hotclasps-aim-to-bring-back-the-hitclips-player-and-now-boast-bluetooth-support-e6b128574e75	Article27.jpg
This Tethered Root Lets You Run Your Own Code on Amazon's Second-Gen Echo Devices	15-year-old semi-pseudonymous developer "Daniel B" has come up with a way to gain root access to second-generation Amazon Echo devices — including the ability to extract microphone data from the device over the network.	https://www.hackster.io/news/this-tethered-root-lets-you-run-your-own-code-on-amazon-s-second-gen-echo-devices-32fc9cab77c9	Article28.jpg
A New Twist on Brain-Computer Interfaces	The BCI landscape may be about to undergo a significant change as the result of work recently done by a team led by researchers at Tsinghua University. They have developed a soft, conformal in-ear bioelectronic device that can stably record electroencephalogram (EEG) measurements	https://www.hackster.io/news/a-new-twist-on-brain-computer-interfaces-568699e270e1	Article29.jpg
New 4D Printing Technology Increases Productivity	The Researchers from University of Tokyo have developed a new 4D printing technology that almost eliminates the correlation of printing time with size,height or volume	https://www.hackster.io/news/new-4d-printing-technology-increases-productivity-01336075cda8	Article30..mp4