Meet SeedGerm: a Raspberry Pi-based platform for automated seed imaging

Pimoroni Keybow 2040 Review: Programmable Keyboard with Pi Silicon Inside

With the ability to map keystrokes, mouse movements and commands to any of the 16 keys, the Keybow 2040 is a powerful device for home workers and gamers. We can map commonly used sequences including reloading, inventory management and combo moves in our games or actions in a photo editor like Photoshop, and we can use Keybow 2040 perform a series of complex steps all from the push of a button.

If you’ve ever wanted an extra 16, programmable keys on your keyboard, the Keybow 2040 lets you add them.

Xilinx Introduces Kria K26 SoM and vision AI devkit based on Zynq Ultrascale+ XCK26 FPGA MPSoC - CNX Software

Silicon vendors will usually focus on chip design, and provide an expensive evaluation kit to early customers, leaving the design of cost-optimized boards and system-on-modules to embedded systems companies.

But Xilinx has decided to enter the latter market with the Kria portfolio of adaptive system-on-modules (SOMs) and production-ready small form factor embedded boards starting with Kria K26 SoM powered by Zynq UltraScale+ XCK26 FPGA MPSoC with a quad-core Arm Cortex-A53 processor, up to 250 thousand logic cells, and a H.264/265 video codec designed for Edge AI applications, as well as computer vision development kit.
Lasers come in two varieties: solid-state and gas tube. As the name suggests, the latter types contain gas. That is a mixture of gas in precise proportions. To fill his DIY laser tube, Cranktown City built an Arduino-controlled gas mixer.

This device has an Arduino Uno board that drives three relay modules. The first relay switches power to a gas pump, the second relay controls an output valve, and the third relay controls an input valve. A push button starts the pumping process. The pump turns on and the input valve opens. Gas from a storage tank is pumped into an inflatable bag. Once the bag is full, as detected by a limit switch, the two valves flip and the gas pumps into the laser tube.

**Hardware**

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