Contents

Cover Feature

36 Raspberry Pi
Big Builds

Regulars

92 Your Letters
97 Next Month
98 The Final Word

Project Showcases

10 Farm Sensor Dashboard
14 Picoth
18 Floppy Controller Board
20 Smart Buoy
22 Renewable Forecast Display
24 Raspberry Pi Ri
26 Drinks Machine
28 Tiny Mac
32 Raspberry Pi Spigot

Tutorials

42 Build an arcade machine - part 3
48 Configure Pi-hole - part 2
52 Create GUIs in Python - part 4
60 Manic Miner’s collapsing platforms
62 Pico burglar alarm
68 Pico-Voice - part 1

The Big Feature

72 Summer Projects

Reviews

80 Thine Cable Extension Kit
82 10 Amazing: media projects
84 Learn robotics

Community

86 Phil Howard interview
88 This Month in Raspberry Pi

WIN 1 OF 5 GROVE STARTER KITS FOR RASPBERRY PI PICO

DISCLAIMER: Some of the tools and techniques shown in The MagPi magazine are dangerous unless used with skill, experience, and appropriate personal protection equipment. While we attempt to guide the reader, ultimately you are responsible for your own safety and understanding the limits of yourself and your equipment. Children should be supervised. Raspberry Pi (Trading) Ltd does not accept responsibility for any injuries, damage to equipment, or costs incurred from projects, tutorials or suggestions in The MagPi magazine. Laws and regulations covering many of the topics in The MagPi magazine are different between countries, and are always subject to change. You are responsible for understanding the requirements in your jurisdiction and ensuring that you comply with them. Some manufacturers place limits on the use of their hardware which some projects or suggestions in The MagPi magazine may go beyond. It is your responsibility to understand the manufacturer’s limits.