

Contents

► Issue 116 ► April 2022

Cover Feature

32 Hidden Hacks for Raspberry Pi

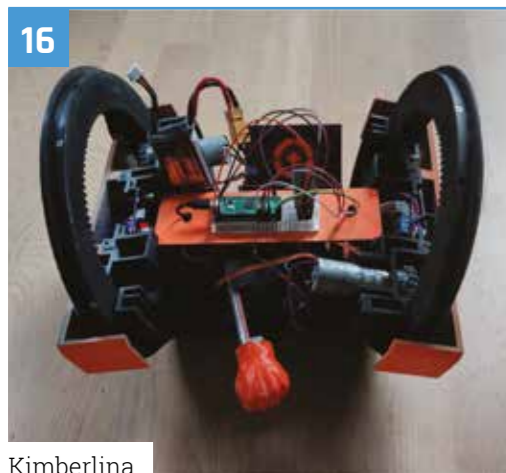
Regulars

- 28** Case Study: Elevated Materials
- 92** Your Letters
- 97** Next Month
- 98** The Final Word

Project Showcases

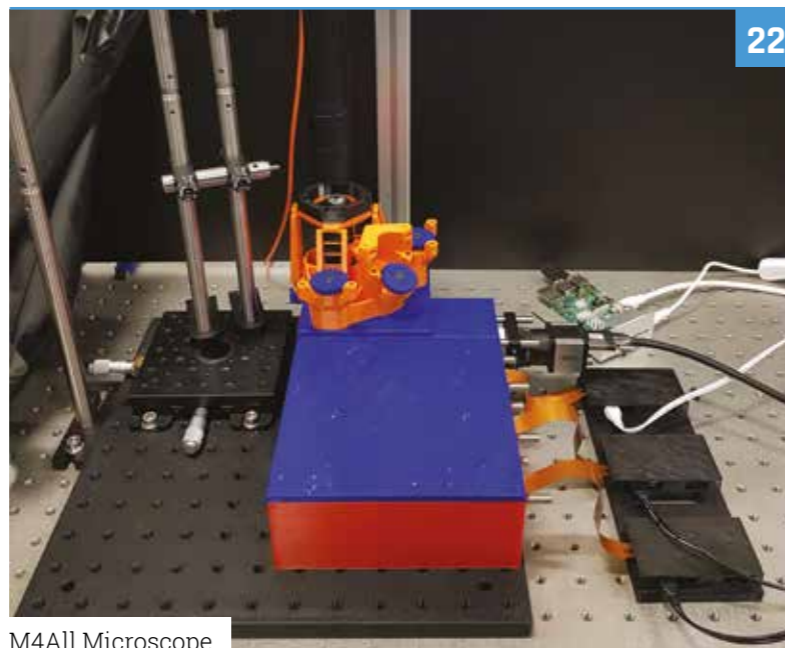
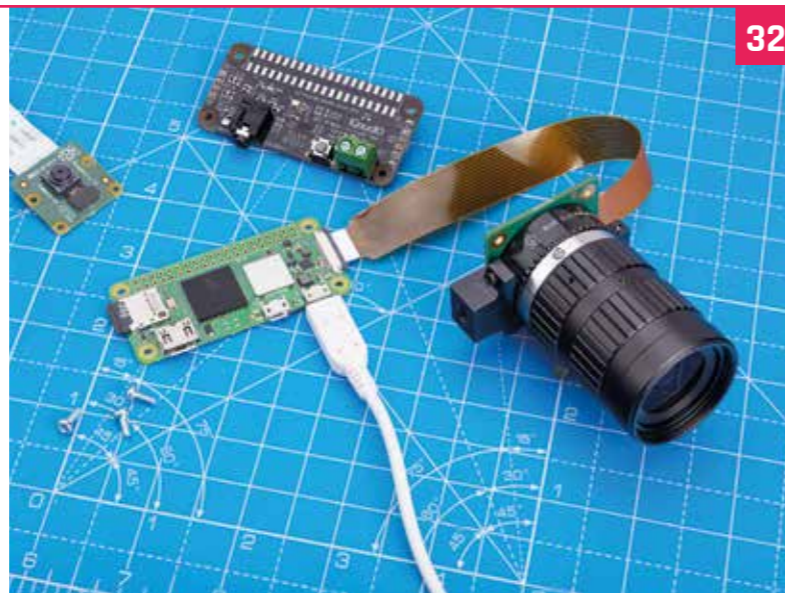
- 08** ZX Spectrum Raspberry Pi Cassette
- 14** Penkesu Computer
- 16** Kimberlina Droid
- 20** Time Machine Radio
- 22** M4All Microscope
- 26** Retro Barcode Scanner

16



Kimberlina

32



M4All Microscope

22

Tutorials

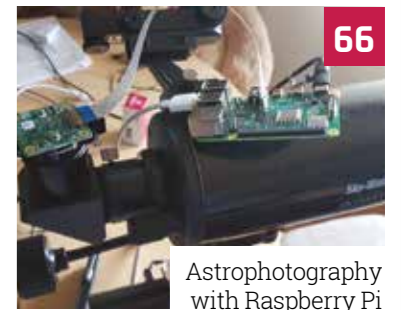
- 46** Learn ARM Assembly
- 52** Digital Audio Workstation
- 56** LED patterns with web GUI
- 60** Pico Hot Wheels Racetrack

46



Learn ARM Assembly

66



Astrophotography with Raspberry Pi

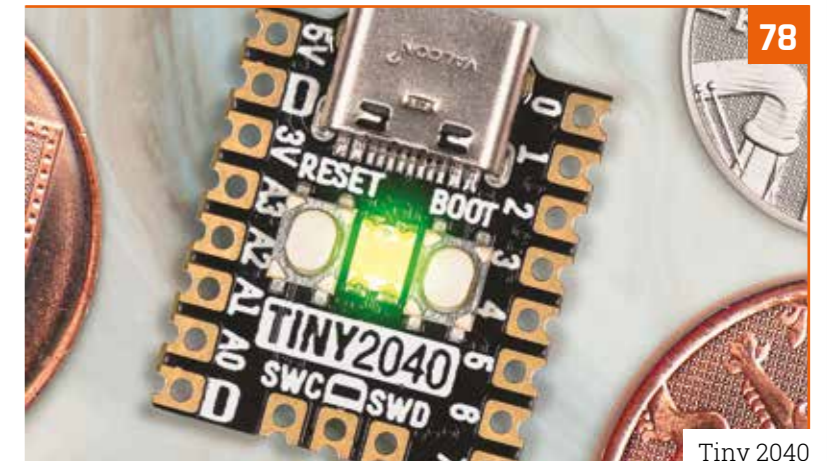
The Big Feature

66



Astrophotography with Raspberry Pi

78

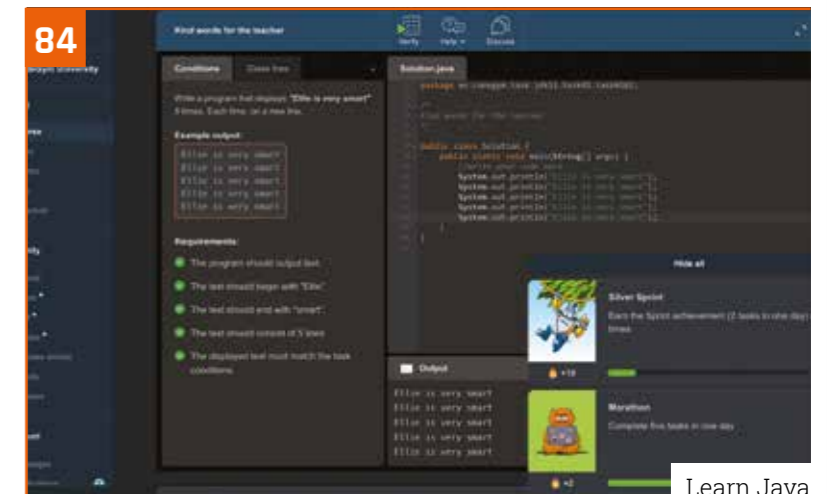


Tiny 2040

Reviews

- 74** 8BitDo Arcade Stick
- 76** Weather HAT
- 78** Tiny 2040
- 80** Badger 2040
- 82** 10 amazing robot projects
- 84** Learn Java

84



Learn Java

Community

- 86** Mike Cook interview
- 88** This Month in Raspberry Pi

WIN 1 OF 5 8BITDO PRO 2 CONTROLLERS



95