



PROJECTS 2021

Soldering, gluing, milling - when public life shuts down, the machines in the workshop start up! The c't hobby craft experts present their most exciting, useful and nerdy projects.

The special issue „c't Projects 2021“ has a mighty 180 pages with ideas, solutions and a lot of know-how, starting with a crash course for the versatile craft computer Raspberry Pi, a quiet air purifier and an the aerosol traffic light in a noble wooden housing. A special focus is the extensive introduction to CNC milling with several do-it-yourself milling machines, a tutorial on CAD and CAM software and all the practical tips on milling cutter selection and path planning. The crowning glory is the FarmBot project, a horticultural robot that manages a raised bed fully automatically - with tips on building and programming.

FROM THE CONTENT:

GETTING STARTED WITH THE RASPI

- Switches, buttons and LEDs on the Raspi
- Raspi boots from SSD
- Raspi 4 as a PC replacement for the iPad Pro

TINKERING WITH ELECTRONICS AND WOOD

- WLAN fan control with ESP8266
- GPIO expansion with the MPC23017
- ESP with fine dust sensor as aerosol detector
- Arduino Micro as a HID device

DESIGNING WITH CAD SOFTWARE

- CAD with Onshape
- Milling paths with Fusion 360

PRODUCTION WITH CNC MACHINES

- Hand-held CNC milling machine Shaper Origin in test
- Mostly-Printed-CNC versus OX-CNC: Comparison of the do-it-yourself milling
- Finding the ideal parameters for planning the milling path

GARDENING WITH ROBOTS

- Building and programming FarmBot
- Watering the garden

Deadlines

On Sale

May 25, 2021

Space Close

April 29, 2021

Materials

May 03, 2021

Size	Type area	Bleed W x H*	4c
2/1 page	390 x 201	420 x 240	9,550 €
1/1 page	185 x 201	210 x 240	4,775 €
Portrait size A	145 x 201	156 x 240	3,860 €
Portrait size B	105 x 201	116 x 240	2,755 €
Portrait size C	60 x 201	71 x 240	1,930 €
1/2 page Landscape	185 x 98	210 x 115	2,475 €
1/3 page Landscape	185 x 64	210 x 81	1,650 €
1/4 page Landscape	185 x 48	210 x 65	1,300 €
Cover page 2 and 4			5,990 €
Cover page 3			5,250 €

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Contact

Verlagsbüro ID GmbH & Co. KG

Jathostr. 10a

30916 Isernhagen

Phone: +49 [0]511 616595-0

Fax.: +49 [0]511 616595 -55

E-Mail: service@verlagsbuero-id.de

Internet: www.verlagsbuero-id.de

Irmgard Ditgens: -10

Ines Walter (Ltg.): -25

Susanne Sinß: -35

Colien Burghardt: -40