

Makers Workshop

Hands-on Hardware Hacking

2025-09-05

Event Overview

The Makers Workshop is a full-day, hands-on event for hardware enthusiasts, bringing together makers, DIY experts, and hardware hackers to build projects and share knowledge. Participants will have access to cutting-edge equipment, expert guidance, and a collaborative environment to turn ideas into working prototypes.

Workshop Tracks

Attendees can choose from multiple hands-on tracks based on their interests and experience levels:

1. Microcontroller Mastery

Learn to program and integrate microcontrollers like Arduino and ESP32 for IoT projects. Create smart devices that sense, connect, and respond to their environment.

2. 3D Printing & Modeling

Master the fundamentals of 3D design and printing. Create custom parts and learn optimization techniques for functional prints.

3. Electronics Fundamentals

Dive into circuits, components, and soldering. Build your own electronic gadgets from basic components to functional devices.

4. Advanced Robotics

Design and construct simple robotic systems. Explore mechanics, control systems, and autonomous behavior.

5. Wearable Technology

Combine electronics with textiles and fashion. Create interactive clothing and accessories with embedded technology.

Schedule

Morning Session

Time	Activity
08:30 - 09:00	Registration and Coffee
09:00 - 09:30	Welcome and Introduction to Tracks
09:30 - 10:30	Workshop Session 1: Fundamentals
10:30 - 10:45	Coffee Break
10:45 - 12:30	Workshop Session 2: Component Integration
12:30 - 13:30	Lunch and Maker Showcase

Afternoon Session

Time	Activity
13:30 - 15:30	Workshop Session 3: Project Development
15:30 - 15:45	Refreshment Break
15:45 - 17:00	Workshop Session 4: Refinement and Testing
17:00 - 18:00	Project Showcase and Peer Feedback
18:00 - 19:00	Expert Panel: “The Future of Making”
19:00 - 20:00	Networking Reception and Community Building

Equipment and Resources

Participants will have access to a wide range of equipment and materials:

- 3D printers (FDM and SLA)
- Laser cutters

- CNC machines
- Electronics workstations with soldering equipment
- Microcontrollers and sensors library
- Basic components and materials
- Textile and soft materials workstation
- Tools and test equipment

What You'll Take Away

- A completed project in your chosen track
- Comprehensive digital documentation of all workshop materials
- Certificate of participation
- New connections with the maker community
- Knowledge of advanced fabrication techniques
- Continuation resources for further development

Who Should Attend

- Electronics hobbyists and enthusiasts
- Students in engineering and design fields
- Educators interested in maker education
- Artists exploring technology integration
- Entrepreneurs developing hardware prototypes
- Anyone curious about making physical technology

Registration Information

Registration opens on July 15, 2025. Space is limited to 75 participants to ensure quality instruction and equipment access. Early registration is recommended, as tracks fill quickly.

Frequently Asked Questions

What skill level is required?

Workshops are designed for multiple skill levels, from beginners to advanced makers. Track descriptions indicate the recommended experience level, and instructors will adapt to participant needs.

Do I need to bring my own equipment?

Basic materials and equipment will be provided. You're welcome to bring your laptop and any special components for your project. A detailed prep list will be sent to registered participants.

Can I work on my own project instead of the track projects?

Yes! While we provide structured track projects, experienced makers are welcome to work on personal projects and use the event for guidance and access to equipment.

What is the registration fee?

The workshop fee is €120 per participant, with a reduced rate of €60 for students. This covers all materials, equipment usage, meals, and refreshments during the event.

Will there be take-home kits?

Yes, each track includes components and materials that participants can take home to continue their projects. Additional kits will be available for purchase.