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Fablab Con
Europe 2013
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AV production and services

Productions

- Recently Uploaded
  - Timo-Erkkki Hemo: More Money to US Rich...
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Recently Followed

- mL
- Media Lab Helsinki
- Julie Kreamer
- Pia Ruskin
- Video Marsh
- kloosn Emma

120 videos

Edit and camera

1. Still cameras: Nikon, Canon and Sony with lens sets
2. Video camera: 2 Sony + high speed camera
3. Lights, stands etc.
4. Two edit units

Video cart set

1. two cameras
2. camera AC adaptors;
3. laptop, headphones;
4. HDMI cables;
5. microphone holders;
6. shotgun microphones
7. cables etc.
Web Studio

Consulting with students and staff on web development and problems


A bookshelf full of books on user experience, interaction design, information design, web development and related things
Projects

FabLab is about sharing what you make. See projects made at Aalto Fablab, and welcome to make your own!

More information: fablab.aalto.fi/site/projects

3D Printers

The Ultimaker is a low-cost open-source do-it-yourself 3D printer using the Fused Filament Fabrication (FFF) technology with thermoplastic extrusion. It's a great tool to make flat 3D prototypes out of plastic in various colors.

Vinyl Cutter

With the vinyl cutter, you can create stickers of maximum 60 cm wide and 35 meters long. It's also possible to cut copper foil for making flexible circuit boards.

Milling Machines

Roland Modela MDX-20 is used for precision 3D milling and 3D scanning as well as for making printed circuit boards (PCBs). Large-scale CNC is used for making furniture-sized objects as well as milling larger shapes with 3 axes.

Lasercutter

The lasercutter is a machine that works in the 2D plane, almost like a laser printer. It may be used with lots of different materials for engraving (laser-etching) and precision cutting.

Electronics Studio

Electronics Studio will help you with electronics prototyping. You can make your PCB, solder your components, and test your circuits. You are welcome to use the lab and to attend the Electronics for Artists course.

Aalto Fablab
Aalto Fablab

- Staff
- Opening hours
  - Open day on Tuesdays
  - Aalto days
- Charging policies
Electronics Studio

- 3 Electronics tables
- Power supply
- Oscilloscope
- Signal generator
- Logic analyzer
- PCB making facilities
- Soldering stations
- Microscope
- Shelves of components
- Books
Strategy in Electronics Studio

- Pop in, explore and ask for consultancy
- Lending components and boards
- No charge for use
- Charges for components with total cost of more than 5 euros
Media Factory helps Aalto University departments create new innovative learning opportunities within the media context.

Course: Art and Tech “the Bat Helmet”
Electronics Education in Fablabs

- Arduino Workshop in Timelab and BUDA::Lab
- Arduino physical computing in Relab
- Introduction to computer arts and electronics in Brighton fablab
- Physical Computing and Arduino workshop fabMTIC
Electronics for the Artists

• Why is it needed?
  • Aalto Fablab Location
  • Artists and Designers
  • Electronics in art and design projects
Electronics for the Artists

• What do the artists and the designers need?
  • Physical Computing
  • Interaction Design
Electronics for the Artists

- Short sessions each focusing on one topic
- At lunch time
- No credits
- No registration
- No charge
- Open for everybody
The Course Structure

• Definitions
  • Voltage
  • Current
• Equipment
• Prototyping
• Microcontrollers
  • Arduino
  • Teensy
The Course Structure (continue)

- Input/output
  - Digital
  - Analogue
- Communications
  - Serial
  - SPI
  - I2C
  - Wireless
The Course Structure (continue)

• Board Design
  • Eaglecad

• PCB
  • Etching
  • Milling

• Assembly

• Test and Debug
Conclusion

• Positive Feedbacks
• Visual
• Audio
Future Plans

• Developing the course further
• Connection with high schools
• More programming
Thank You!