

FabLab.hr CROATIA



2nd Workshop on Science Dissemination for the Disabled



Science Dissemination for the Disabled, Trieste, October 23-25, 2017



FabLab.hr | Give-a-Hand



About FabLab.hr

FabLab, civil association for promotion of digital fabrication, was founded in 2013 as a non-profit and based on MIT's Fab Charter. It is aimed at promoting digital fabrication, encouraging DIY and helping society benefit from the makers movement. Intense activities - in line with three main missions:

Education

(R)evolution

Give-a-Handucation related Solutions

local community related

Go Global

business related

Teaching following skills: Design Thinking, STE[A]M, 3D Parametric Modelling, Generative Design, 3D Scanning, Digital fabrication, Electronics, Robotics, Virtual Reality, Augmented Reality, IoT, BigData, Biosensors, Smart Sensing



Projects & FabLab PopUp events

Make-IT understanding collective awareness platforms with the maker movement, FabLabNet, making central Europe more competitive by unlocking the innovation capacity of FabLabs, Campus Living Lab, integrating makers movement into living lab concept, Make@School, national initiative for creative labs in primary schools, FabLab@Road, PopUp mobile activity, FabLab@Boat, summer PopUp mobile activity for coastal zone évents EU C EU 35.000+

projects proposals

national

3D Printing Open Days, Maker Faire, Scientific Picnic, Design District, Ready Made Ilica, Carnet User Conference, FABelgrade, FABLab Festival, European Makers Week, Designathon, Open Design Day, International Kids Festival,



2016 2017

Understanding Collective Awareness Platforms with the Maker Movement



2016 2019

Making central Europe more competitive by unlocking the innovation capacity of FabLabs



2017 2020

Entrepreneurial skills for young social innovators in an open digital world. A European Initiative!

Education (R)evolution | Education

Introducing new digital tools and design thinking processes in order to boost STE[A]M skills. Facilitating responsible education and research in local and global context, by linking three educational levels. Long-term goal is to make children believe they can turn their ideas into reality and encourage them to remain in the creative phases of their minds, as well as support them in development of soft skills and cooperation from the early

ages.

20 primary

5 secondary schools

school workshop

2 teachers association

4 university institution

74 teachers

Make@School national initiative (since 2013), aiming at introducing digital co-creation into schools through creative labs | Re3D cooperation with Secondary School Faust Vrančić (since 2016), inspired by circular economy: reuse, recycle, hack to build new digital fabrication tools | Campus Living Lab research with Faculty of Architecture, University of Zagreb, how campus and higher education can benefit





Local Solutions Go Global | Business

Engaged digital technology which encourages development of entrepreneurial mindset by facilitating turning ideas into products and leveraging local insights to develop solutions for global market. Co-creation by merging analogue and digital technology for creative and innovative use on global market in cooperation with quadhelix stakeholders.

25 SME's

tech park & incubators

corporations

3 hubs & co-working

One-2-3D Creative co-creation by merging analogue and digital technology for creative and innovative use | HUB_S Sesvete using makers culture inspired space for urban and commercial regeneration as a case study for underdeveloped or (not)transformed urban areas | Makerbuino helping with idea2product process for DIY inspired project by Albert Gajšak, www.makerbuino.com



Give-a-Hand | Local Community

Innovation inspired by situations local community members, especially persons with disabilities, are facing on daily basis. Unlocking creative potential of local community by interdisciplinary co-working and inclusion in solving problems and issues.

Flying vehicle helping transform a drawing made by a child with autism into a 3D model | Special cutlery research and development for children with neurodevelopmental and motoric disorders - developing sensory optimized modular tools Kufta Go Global helping an artist with disability to go global with his handmade work by using 3D scanning, 3D modelling and digital printing services | Need-a-Hand based on eNable the Future initiative, helping a student at the Faculty of Architecture leading the project of developing and manufacturing a prosthetic hand for himself.

7 civil associations

g creative workshops

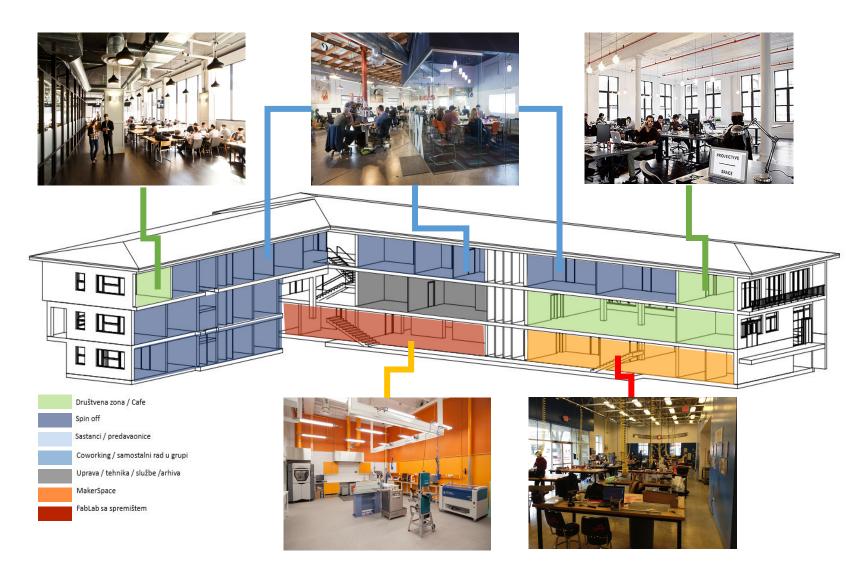
organizations for disabled persons

3 museums

6 local community



Give-a-Hand local community related



HUB_Sesvete

1 > MakerSpace

2 > FabLab

3 > Coworking | Co-Design

Partners:

- City of Zagreb
- Sesvete Local Community
- Civil Organizations in Sesvete
- Primary School Sesvete
- High School in Sesvete
- University of Zagreb
- FabLab.hr
- Local businesses

ReMljet



national park - preservation
 hugh amount of wast
 recycle to new products
 Precious Plastic inspired
 part of Fab@Boat to outreach











Give-a-Hand local community related









Gabrijela J.
Flying vehicle
2015-2016
Supervisor
Ana Elizabet



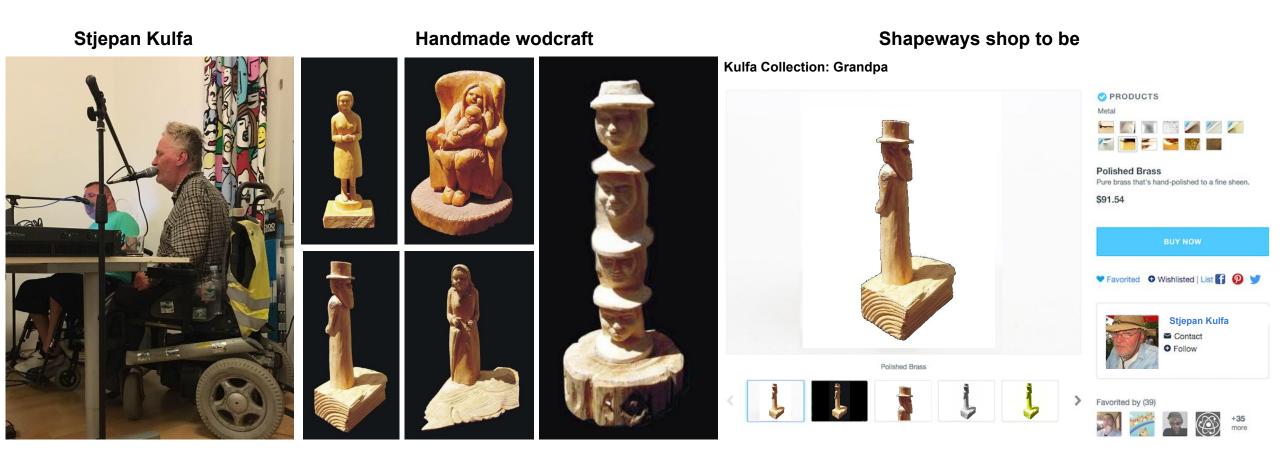
NGO for autism 2016-2017 Supervisor Kristina Škaler

Capative sensing





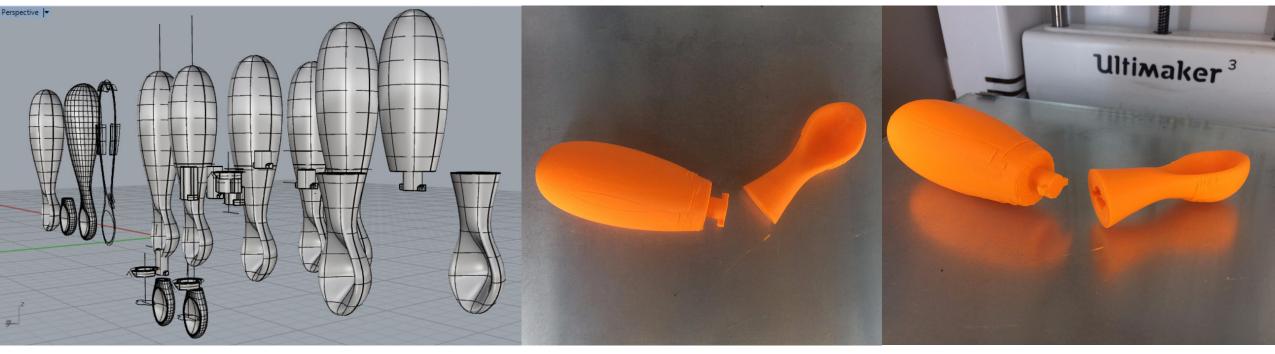
Stjepan Kulfa: Kulfa GoGlobal / 2016> | Supervisor: Roberto Vdovic





FabLab: Special cutlery / 2014> | Supervisor: Morana Pap

Emma Exoskeleton development Motoric issues Modular design Customized individually with movement capture (PeThe)



KiDnect Team: PeThe / 2011> | Supervisor: Jerislav Bobić

PeTHE Personal Therapist System

KiDnect tim



Microsoft Kinect Based



Karmela Brešan, Dominik Tomičević, Ivan Borko, Ivan Antonić

Imagine Cup Croatian finals 1st place - 2011, Top 18 finalists - Imagine Cup 2011, Worldwide finals, New York Imagine Cup Grants Winner 2012

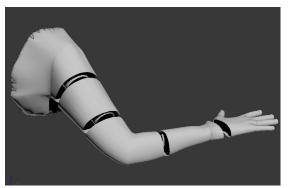






http://www.pethe.eu

Kristijan Mamić: Need-a-hand / 2015 > | Supervisor: Morana Pap





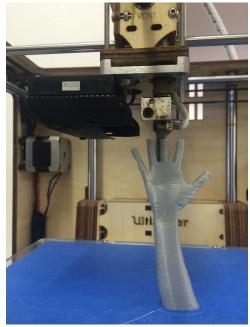




3D scanning
3D modeling
3D printing
mehanotronics
biosensors
enablingthefuture.org



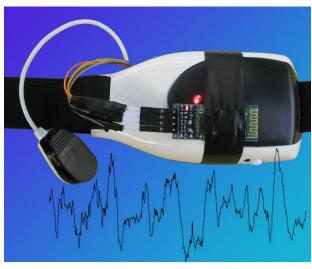






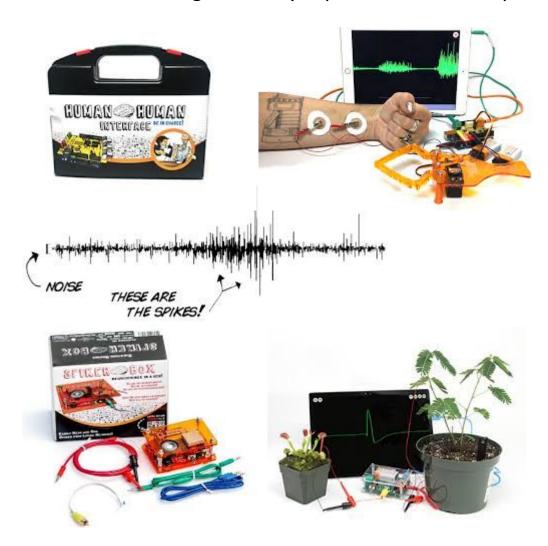
Give-a-Hand local community related







FabLab: Biosensing / 2016> | Supervisor: Morana Pap



FabLab: AR&VR developemnt / 2016> | Supervisor: Morana Pap

Augmented reality (AR)
Virtual reality (VR)

UI development for persons with disability R&D in architecture

3D scanning onfly

Bridget AR



Oculus Rift VR



FabLab: DOIT project / 2017> | Supervisor: Roberto Vdovic



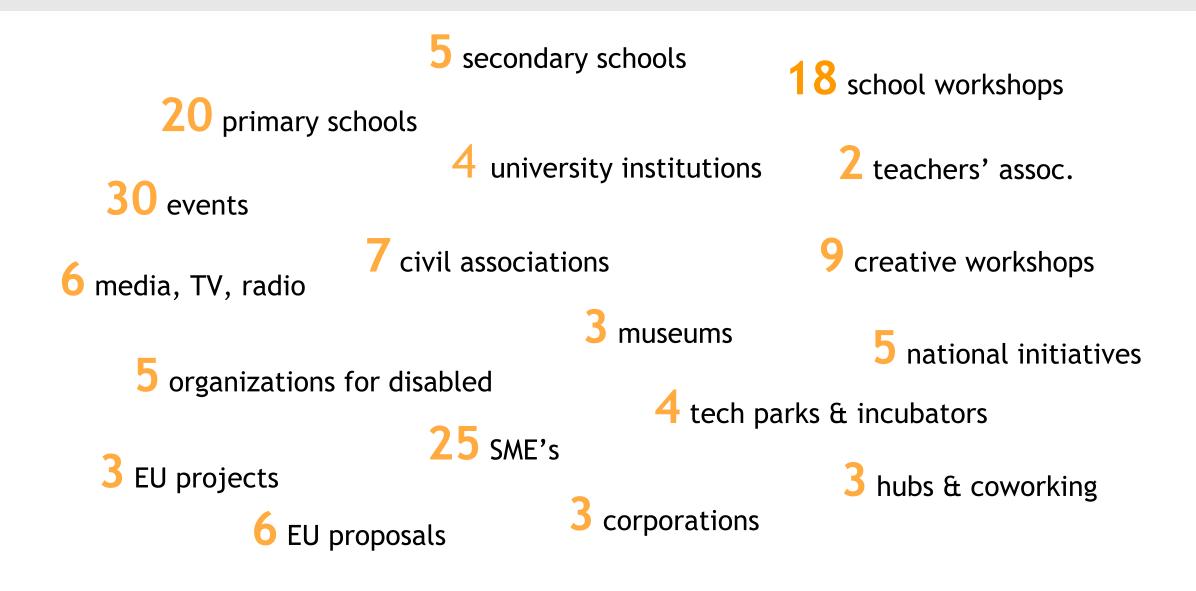


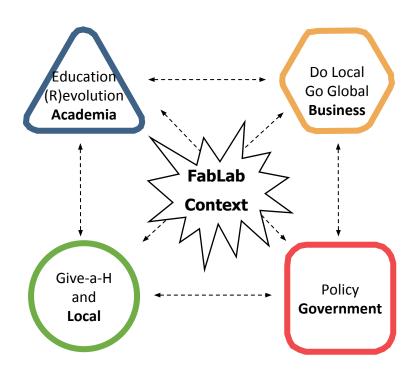


Entrepreneurial skills for young social innovators in an open digital world A European Initiative!

Slava Raškaj Educational Centre Zagreb is a part of the Ministry of Demographics, Family, Youth and Social Policy. We provide services to persons with impaired hearing, with normal hearing but with impairments concerning the voice-speech-language communication, with communication difficulties from the spectrum of autism and pervasive developmental disorder as well as to children and young people with multiple disorders. We provide service to clients from their birth up until the age of 30.

Networking





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