

CV and References:

Gjino Šutić

born: 21.09.1984. in Dubrovnik, Croatia



PROFESSION:

FOUNDER, DIRECTOR & HEAD OF SCIENTIFIC RESEARCH AT UR INSTITUTE,

FOUNDER, DIRECTOR & HEAD OF SCIENTIFIC RESEARCH AT GEN0 INDUSTRIES,

MULTIDISCIPLINARY SCIENTIST,

INNOVATOR,

POST-MODERN INTERMEDIA (SCIENCE+ART, BIOART) ARTIST,

EDUCATOR

SHORT CV:

Researcher, innovator, CEO & CSO at UR Institute & Gen0 Industries

Born 21.09.1984. in Dubrovnik, CRO.

Conducts research in several fields of science, such as; biotechnology & biomedicine, electronics, robotics, computer science & IT, engineering, nanotechnology etc. with a focus in the field of bioelectronics and biorobotics.

Using DIY approach to biotechnology (biohacking), he designs and DIY manufactures necessary instruments and materials.

Invented the concept of "Biotweaking" (improvement of living organisms or their components to exhibit and use their full potential) which fully defines his philosophy and work.

Since 2012. started a public work by displaying his inventions and innovations such as; SRCE, B.O.C.A., MeBUMZ etc., in a variety of scientific and art exhibitions and cultural events in Croatia and abroad. Also, started teaching as an informal educator in biotweaking areas of science.

His work combines complex electronics and biotechnology, and he often uses artistic representation for the demystification of science and for bringing it closer to ordinary citizens.

In 2013. founded and started working as CEO & CSO of non-profit citizen's Universal Research Institute UR, where he also holds workshops, teaches and experiments.

in 2015. founded and started working as CEO & CSO of Gen0 Industries - for production and development of innovations.

AFFILIATION:

Active member of Hackteria - international biotech network, Zurich, CH.

Member of MENSA - international network

Member of diyBIO community

Member of Global Shapers community (World Economic Forum initiative)

Cofounder & supervision board member of the first Croatian Makerspace - Radiona Zagreb, Croatia

Advisory board member of BioTehna Laboratory, Ljubljana, Slovenia

WORK REFERENCES:

SCIENCE AND SCIENCE-ART EXHIBITIONS:

2012. Ganz New Festival @ ITD, Zagreb, Croatia

2012. Device Art @SC, Zagreb, Croatia

2013. Lab Easy @ Art's Catalyst, London, UK

2013. SoundArt / BIOArt @ Technical Museum, Zagreb, Croatia

2013. SoundArt Incubator @ Pogon, Zagreb, Croatia

2013. Newcastle MakerFaire @ Life Science Centre, Newcastle, UK
(supported by Wellcome Trust)

2013. MUUVe IN Zagreb @ HDLU, Zagreb, Croatia

2013. Textil(e)tronics 2.0 @ Nano Gallery, Zagreb, Croatia

2014. Hackteria Lab 2014. exhibition @ Langgeng Art Foundation, Yogyakarta, Indonesia

2014. Weird Science @ Drugo More, Rijeka, Croatia

2014. Electronic constellations @ Sincich Gallery, Višnjan, Croatia

2014. Završimo s Božjim sudom pt.3 @ Hartera, Rijeka, Croatia

2014. Touch Me Festival 2014 @ Klovićevi Dvori, Zagreb, Croatia

2015. Mysterious Worlds of Science Underground @ DURA, Dubrovnik, Croatia
(exhibition curator)

TALKS AND CONFERENCES:

2013. Biohacking @ Lab Easy / Art's Catalyst, London, UK

2013. SPVH Conference: Renewable energy/ Renewable culture @ MSU, ZAGREB, CROATIA

2014. Immortality & alternative reproduction discussion @KKF, Yogyakarta, indonesia

2014. PechaKucha night - presentation of work & discussion @ Lazareti, Dubrovnik, Croatia

2014. Stem cell technology, regenerative medicine & immortality talk @ Kapelica gallery, Ljubljana, Slovenia

2015. CroArtScia 2015 – Technological Innovations: Art & Science: “Novel approach to Research and Development: Citizen science, Interdisciplinary and Innovations” @ The Technical Museum, Zagreb, Croatia

2015. Living Assemblies - Biotweaking @ Futherfield Commons, London, UK

EDUCATIONAL WORK:

WORKSHOPS:

- 2012. Lets do some Biotweaking @ I'MM_Media lab, Zagreb, Croatia
- 2012. Mushroom cloning + Mini Arduino botanical garden construction
- 2012. Moss graffiti + Intro to Human metabolism hacking
- 2012. Intro to brain Biotweaking & Basics of BioLab work - Growing Microorganisms
- 2012. DNA extraction & algae cultivation
- 2012. Making Biomechatronic Theremin

- 2013. Add some life to your kitchen
- 2013. DIY bioreactors, biotech production, cell & tissue cultures
- 2013. Intro to Plant cloning, hormone manipulation & hydroponics
- 2013. DIY biohackig tools & equipment
- 2013. DIY microorganisms isolation & intro to DIY nano tech
- 2013. DIY microorganisms pt.2
- 2013. Lab Easy @ Art's Cathalyst, London, UK
- 2013. Full throttle Biopunk - DNA grinding
- 2013. Power of microbes 4 everyone
- 2013. Making DIY MEAs & Solar cells
- 2013. Printing life
- 2013. Biosystems engineering & automatisation
- 2013. ArtEnergy Zagreb @ HDLU, Zagreb, Croatia
- 2013. DIY organic solar cells from scratch - workshop series, Zagreb, Croatia
- 2013. Biotweaking WorkSHOP @ Kiblix, Maribor, Slovenia
- 2013. Home automation hackathon

- 2014. Biotweaking Cephalopoda @ UR Institute, Zagreb, Croatia
- 2014. DIY Marine Forensics @ UR Institute, Zagreb, Croatia
- 2014. Sous-vide cooking @ UR Institute, Zagreb, Croatia
- 2014. Body Extension - Body Hacking - Prosthetics workshop @ Klovicevi Dvori, Zagreb, Croatia
- 2014. Open-source medicine @ UR Institute, Zagreb, Croatia
- 2014. Open-source medicine pt.2 @ UR institute, Zagreb, Croatia
- 2014. DIYbio Lab introduction @ KKF, Yogyakarta, Indonesia
- 2014. Build a Bacterial Battery - Tweaking with bioelectronics @ KKF, Yogyakarta, indonesia
- 2014. DNA extraction & barcoding @ KKF, Yogyakarta, Indonesia
- 2014. DIY media for growing environmental biosamples @KKF, Yogyakarta, Indonesia
- 2014. Molecular dynamics of DNA - Yesterday, today & tomorrow @ UR Institute, Zagreb, Croatia
- 2014. Future of reproduction - discussion @ UR institute, Zagreb, Croatia
- 2014. Organic extraction for Beginners @ UR Institute, Zagreb, Croatia
- 2014. Biotweaking: Microorganisms - best friends @ Science picnic, Zagreb, croatia
- 2014. Who killed the Pig? - Forensics for kids @ Rampa, Ljubljana, Slovenia
- 2014. Who killed the Pig? - Forensics for youngsters @ Klovićevi Dvori, Zagreb, Croatia
- 2014. How to get rid of a corpse? / Reverse forensics @ Klovićevi Dvori, Zagreb, Croatia

EDUCATIONAL PROGRAMS

(PROGRAMME AUTHOR & LEADER, EDUCATOR):

PREVIOUS:

2012. - 2013. Leader of BioLab, research and educational programme @ I'MM_ Media Lab, Zagreb, Croatia

2014. Biotweaking at LjTZ Summer science school @ Mediterranean Institute for Life Sciences, Split, Croatia

2015. Bioelectronic Academy - non-formal educational program for youngsters (6 months of workshops & lectures in various fields of experimental electronics, biotechnology, nanotechnology, robotics and bioelectronics @ UR Institute, Zagreb, Croatia

2015. Science Underground Academy - Summer School of postmodern Science & Art @ Gen0 Industries RTD lab, Dubrovnik, Croatia

CURRENT:

2013. - Science in culture - continuous educational program @ UR Institute

2013.- BIOsection - continuous experimental educational program/ project @ Radiona Makerspace, Zagreb, Croatia

COMPLETED SCIENTIFIC INNOVATIONS

(RECENT PROJECTS):

SRCE - innovative method for 3D human tissue engineering by the use of microbial biotechnology for production of biocompatible scaffolds.

B.O.C.A. - multipurpose household device which can be used among other things for circadian rhythm control, air recycling & food production at home

MeBUMZ - Microbial microphones, speakers and drums - innovative biomechatronic technology

Microbial Batteries - innovative hybrid technology for production of electricity from organic waste & purification of water (based on microbial fuel cell technology, and approximately 10x more efficient)

Shiva's Garden - development of hybrid sustainable large scale in-door semi-automatic farming method, and use of innovative mutagenesis technique for development of new corn variety - optimised for growth in low light conditions

EROS - Developing prototype of autonomous, self-sustainable, intelligent Environmental Research & Observation Station. Designed & developed for use in various ecological research.

Sensory experience chamber (for Moment of Death science-art installation) - system for creating controlled environment inside a human sized chamber, tested on connection to EROS probe.

OTHER PROJECTS:

2015. - Project developer (projects for youth, contemporary art & science- for period 2015.-2020.)
@ European Capital of Culture Dubrovnik - Incubator, Dubrovnik, Croatia

2015. - Project developer (projects related to science+art, science, education and creative industry) - for period 2015.-2020.) @ European Capital of Culture Zagreb - Incubator, Zagreb, Croatia

CURRENT SCIENCE PROJECTS:

(RESEARCH & DEVELOPMENT)

SRCE 2.0 - method for custom, semi-automatic, serial production of replacement human heart (based on SRCE technology) @ UR Institute

JUNO - development of android bio-robotic platform (focus: new materials, reflex development, distributed cognition) @ UR Institute, Zagreb, Croatia

Citizen's BioBank - non profit, citizen's repository for biosamples // biodiversity preservation @ UR Institute, Zagreb, Croatia

GaEA project - Citizen's ethnobotanical archive - research & preservation of knowledge & biosamples of medical flora (continuation of ethnobotanical research conducted in Wonosadi forest, Yogyakarta, Indonesia in 2013.)

Adria Perl - development of underwater version of EROS, for marine ecology research, testing of new sustainable power sources, and development of new microfluidic technologies for marine water & micro ecology analysis (Supported by City of Dubrovnik - Division for Urbanism & Ecology)

Eco Lab - ecological research & development of ecological innovations (such as use of extremotroph bacteria for bioremediation, and development of innovative sustainable farming methods)

TECHNICAL SKILLS:

Project design and management

Product design

Spoken languages: Croatian, English, German, Italian, Latin, Old Greek

Electronics (Expert knowledge in hardware engineering, computer systems, experimental electronics: microcontrollers, embedded computer systems, MEA nanotechnology..)

Programming: C++, Arduino, Java

Mechatronics, Automation and Robotics

Biology - various fields (Expert knowledge in Biology, Microbiology, Ecology, Microbiology & Molecular Biology)

Biotechnology (Expert knowledge in Industrial biotechnology, Genetic engineering and Biochemistry)

Chemistry (Expert knowledge in: General chemistry, Chemical analysis, Physical chemistry & Organic chemistry)

Nanotechnology (nano electroplating, graphene manufacture)

Interdisciplinary science fields: Bioelectronics, Biomechatronics, Biorobotics

Regenerative medicine (Expert knowledge in Tissue engineering & Biomedicine)

Teaching/ education (Expert for non-formal education)

New materials & manufacturing techniques (3D modeling, additive technologies, CNC& laser cutting)

New media Science+Art(Digital art, Installation art, Intermedia & BioArt techniques)

LINKS:

<http://gen0.industries>

Facebook: Gen0 Industries

<http://ur-institute.org/>

Facebook: UR Institute

<http://biotweaking.com/>

Facebook: Biotweaking

CONTACT:

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Linkedin: <http://hr.linkedin.com/pub/gjino-sutic/58/ab/98>

REFERENCES:

<http://www.meetup.com/Biotweaking-Zagreb/>

<http://radiona.org/>

<https://soundcloud.com/andrewsleigh/gjino-sutic-biotweaking>

<http://hackteria.org/?s=gjino+%C5%A1uti%C4%87&x=0&y=0>

<http://nicolatriscott.org/2013/03/25/do-not-lick-madlabs-diy-biology-residency-at-arts-catalyst/>

http://hackteria.org/wiki/index.php/HackteriaLab_2014_-_Yogyakarta

<http://www.vecernji.hr/techno/biohakiranje-moderne-naprave-od-biljaka-i-stare-elektronike-455533>
(in Croatian)

<http://www.hdlu.hr/2013/09/projekt-solarno-stablo/> (in Croatian)

<http://www.heraznanje.com/gjino-sutic-ur-institut/> (in Croatian)

<http://www.dulist.hr/gjino-sutic-mladi-znanstveno-fantasticni-kreativac-u-kuhinji-sam-uzgojio-ljudsko-srce/207092/> (in Croatian)

<http://www.dulist.hr/procitajte-koje-to-zanimljive-radionice-vodi-gjino-sutic/210137/> (in Croatian)

<http://www.kulturpunkt.hr/content/popunjavanje-jaza> (in Croatian)

<http://dubrovackidnevnik.rtl.hr/vijesti/grad/pogledajte-sto-su-ostvarili-polaznici-ljetne-skole-science-underground-akademije-prvi-put-odrzane-u-dubrovniku> (in Croatian)