

Roy Mohan Shearer

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A hardworking, vibrant designer, maker and educator devoted to new thinking for sustainability and collaborative development.

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Born: 02/01/1982

Core Skills

- Planning and execution of user-centred design processes.
- Visualisation using sketching, modeling and CAD systems.
- Fabrication using card, foam, woodwork, metalwork, resins, fibreglass, pre-cast concrete, sewn textiles, basic electronics, programmable micro-controllers, laser cutting and rapid prototyping.
- Lucid documentation using photography, print and online publishing.
- Design management from brief through to product launch and beyond.
- Tutoring at all levels, and production of educational and arts events.

Education

- Jan. 2014 – Sep. 2014* **PGCert in Learning and Teaching (Associate Route), Glasgow School of Art**
- Jan. 2013 – Jul. 2014* **Fab Academy, MAKlab, Glasgow**
- Sep. 2001 – July 2005* **University of Glasgow and Glasgow School of Art**
- MEng (Euro) degree in Product Design Engineering, Upper Second Class Honours.
- Aug. 2003 – Jun. 2004* **Norwegian University of Science and Technology, Trondheim, Norway**
- Sep. 2000 – Jan. 2001* **Blackpool & Fylde College**
- Sep. 1993 – July 2000* **Lytham St. Annes High Technology College**

Work

- Jan. 2014 – present* **Glasgow School of Art, Glasgow**
- Interactive Prototyping Teaching Assistant, working with staff, students and researchers to develop all aspects of making and using interactive prototypes.
- Setup school wide interest group Artschool I/O.
- Jun. 2005 – present* **Zero-waste Design (self-employed), Glasgow**
- Freelance industrial designer, providing design services with an emphasis on open source design and design for sustainability.
- Self-directed research into open source design. including a 3 month residency at the Duncan of Jordanstone College of Art and Design, funded by the Scottish Arts Council.
 - Lecturing, tutoring and writing on open design, digital manufacturing and sustainable design.
 - Selected clients/funders: Scottish Arts Council, Ponoko, University of Strathclyde, DOTT07, Glasgow School of Art, Starcatchers, The Glad Cafe and North Lanarkshire Council, Skylight International, MAKlab.
- Aug. 2011 – May 2012* **Duncan of Jordanstone College of Art and Design, Dundee**
- 2nd year Lecturer in Product Design and supervisor of selected 4th year projects. Managed and taught modules in Industrial Design, Interactive Products and Physical Hacking.
- Part of the college digital fabrication lab working group.

May. 2009 – 2013

MAKlab/Glasgow Fablab, Glasgow

Long term volunteer, initiating a working group for a fablab in Glasgow, leading to establishment with Bruce Newlands of MAKlab, in May 2012.

- General help within the lab, including fabrication, PR, workshop facilitation, and administrator and participant in the Fab Academy 2013 training program, an international digital fabrication course led by MIT.
- Organisation and facilitation of the lab's first long term taught workshop program for the public.

May. 2006 – Apr. 2009

The Coach House Trust, Glasgow

In-house design engineer and technician, facilitating in timber, metal and concrete workshops primarily for people with mental illness, learning difficulties and addictions.

Jan. 2007 – Aug. 2007

James Fisher Underwater Projects, Glasgow

Design engineer, design for manufacture of fibreglass air tanks.

Exhibitions/ conferences

Jun. 2015

ACM Creativity and Cognition 2015

[performance organiser], Glasgow

Jun. 2015

XCOAX 3 [delegate], Glasgow

Dec. 2014

'11 Mitchell Lane', The Lighthouse, Glasgow

Jun. 2014

FAB 10 [delegate], Barcelona, Spain

Jun. 2014

ODSCC [delegate], Barcelona, Spain

Apr. 2014

Fablearn [workshop facilitator], Aarhus, Denmark

Nov. 2011

Hair of the Dog, Mono, Glasgow

Mar. 2011

Makerfaire UK, Centre for Life, Newcastle

Oct. 2010

Common Thread, Southside Studios, Glasgow

Mar. 2010

Futurecraft, DJCAD, Dundee

Dec. 2008

Manufacture:, Fridge Gallery, Glasgow

Sep. 2006

[re]design 06, Old Truman Brewery, London

Technical Skills/ Accreditations

- Hardware experience: Arduino, Electric Imp, Spark Core, Raspberry Pi, AVR micro-controllers, PICAXE, laser cutters, CNC mills and routers, 3D printers.
- Software experience: many digital fabrication programs, including Vcarve Pro, Solidworks, Inventor 11, Solid Edge, Sketchup, Rhinoceros, 3D Studio Max, Photoshop, Illustrator, Arduino, Processing, EagleCAD and PICAXE. Familiar with Mac OS, Windows and Unix based platforms.
- Languages: Processing, Arduino, C, Python, Basic and formatting in CSS and XHTML. Basic knowledge of German and Norwegian.
- Clean UK driver's license, Associate Member of the Higher Education Academy, Fab Academy graduate.

Other experience

Feb 2003 – 2014

dBass [jazz fusion ensemble]

Drums and joint management for numerous live performances (including clubs, festivals and Scottish touring), recordings and 3 small releases.

Sep. 2007– present

Inspector Tapehead [pop trio]

Drums, percussion and vocals for live performances, and throughout the albums *Duress Code* and *So Solar*.

Sep. 2005 – present

Various other musical work

Including *Miann* with the One Ensemble/Scottish Dance Theatre, *Whirlygig* with Daniel Padden, *Ditto* with Greg Sinclair, the Tristan le Govic Quartet, Jonnie Common, ULTRAS.

Hobbies/ Activities

Performing and enjoying music, travel, cycling, hillwalking and kite flying.