

MARTIN MALTHE BORCH

Curriculum Vitae

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Born 13 / 04 / 84

Key Competences: My main strength is a comprehensive intuition, to develop new concepts and ideas from complex situations of converging technologies and cultures. I am experienced in developing new products, services, strategies and business models through a user centered design approach. In my own projects I often combine biological engineering know-how from agriculture, industrial biotechnology and wastewater treatment with architecture, design and art.

Qualifications: Concept, strategy, design thinking, open innovation, open R&D, presentations, workshops.

PROFESSIONAL EXPERIENCE

MANAGEMENT CONSULTANT 2015 - PRESENT Implement Consulting Group

- Development of new products, services and markets through business analysis, open innovation and design thinking.
- Project management and facilitation
- Project leader training

FREELANCE CONSULTANT 2009 - 2015

Activities are based in my personal company Beatt. In 2014 I had revenues and fundraising of approx.: 600.000 DKK.

Project Developer, Leader or Coordinator

- **Kopenlab**, citizen science festival (Jun. 2014)
Part of Science in the city during ESOF2014. I functioned as the *main organiser and project leader*. www.kopenlab.dk
- **Baessy**, open source lab equipment (2014)
In collaboration with Novozymes and Biologigaragen.
- **Biostrike**, open science project (Jun. 2013)
Aiming at novel open drug discovery and R&D.
- **Mallorca Verd**, hotel and conference center (Jun. 2013)
Architectural concept. Water recirculation model integrated in the architectural design. Collaboration with GXN.

Consultant: Biotech, Open R&D, Open Science

- **“Collaboration - On the Edge of a New Paradigm”**
Documentary shown at *CPH-DOX* (Nov. 2014)
documentaryheaven.com/collaboration-on-edge-new-paradigm/
- **RRI-tools-workshop** (Oct. 2014) Advising the European Union about RRI (Responsible Research & Innovation).
- **Supervising** (Since 2012) Advising student projects in synthetic biology, IT, design and architecture.

Workshops Organiser and Conference Sessions

- Workshop at the sociology conference SNET (Sep. 2014)
About DIYbio and synthetic biology.
- Workshop “Bioenergy and Wireless Sensor Networks”. For The Danish Society of Engineers, IDA. (Nov. 2013)
- Workshop at Re-New Digital Arts Festival (Oct. 2013)
- Workshop at Future Everything (Mar. 2014)
A new media art festival in Manchester.

Exhibitions and Artwork

- **“Urine Journey”** (Aug. 2014)
Art-science project, presented at MADE-festival, Alt-CPH & P1 LiveX.
- **Biohacker: “Do-It-Yourself”**. (2013 -2014)
Exhibition at Medical Museion.

OTHER EMPLOYEE POSITIONS

Research Assistant

Bioreactor engineering, microalgae and biorefinery.

- IT-University of Copenhagen, ITU (Oct. 2013 - Jul. 2014)
Collaboration with associate Professor Laura Beloff, Head of section at Culture and Games.
- Environmental engineering, DTU. (Jan. 2012 - Apr. 2012)
Supervisor Assistant Professor Susan Løvstad Holdt
- BioNRG group, RISØ-DTU. (Nov. 2010 - Jan. 2011)
Supervisor Anne Belinda Bjerre

Teaching Assistant

Department of systems biology, DTU. (Jan. 2010 - Jun. 2010)
Teaching the fermentation technology course.

Surf Coast Life Guard & Rescue Diver

Tryk Kystlivredning (2005 - present)

LANGUAGES AND SKILLS

Languages

Fluency: Danish, English and Norwegian
Good oral skills: French and Spanish
Beginner: German

Skills

Programming: MATLAB, LATEX, Arduino, statistics “R”
Software: Experienced MS Office user, Excel (bioreactor engineering models)
Adobe: Light room, InDesign, Illustrator, Premiere Pro.
Writing: Popular scientific writing and blogposts:
www.mmborch.dk/work

EDUCATION

Master in Interaction Design, CIID

(Jan. 2012 - Dec. 2012)

Copenhagen Institute of Interaction Design, ciid.dk

An intensive 1 year master's programme. I learned product design, design thinking, design research, rapid prototyping, user centered design, experience design. Final project: "*The Indoor Farming Society*".

Grade: A written statement. Portfolio: <http://ciid.dk/education/portfolio/idp12/students/malthe-martin-borch/>

M.Sc. Eng. in Biotechnology, DTU

(Sep. 2007 - Nov. 2011)

The Technical University of Denmark, DTU

GPA: 10.3 (7-scale) Thesis: "*Screening and Optimization of Case Specific Sustainable Mixotrophic Microalgae Medium*" Grade 12. (7-scale)

B.Sc. Eng. in Biotechnology, DTU

(Sep. 2004 - Jul. 2007)

GPA: 9 (13-scale) Thesis: "*Biotransformation of Ferulic Acid*"

1st year: The Royal Veterinary institute, KVL. Now Copenhagen University, KU GPA: 10.7 (13-scale)

Erasmus Exchange Etudent, France

(Sep. 2006 - Jan. 2007)

Institut Nationale Polytechnique de Grenoble (INPG)

GPA: 12.6 (Scale: 0-20)

Outdoor Life Studies, Norway

(Aug. 2003 - jun. 2004)

Sogndal Folkehøgskule

Hobro Gymnasium og HF

(Aug. 2000 - jun. 2003)

Baccalaureate exam. A levels mathematics and music.

B level chemistry. GPA: 9.1 (13-scale)

ACHIEVEMENTS AND AWARDS

The Danish Council for Research and Innovation Policy

(Feb. 2014) I was Nomited by FTF to join the Danish Council for Research and Innovation Policy, by recommendation from the FTF-student group. <http://ing.dk/blogs/folkeforsker>

Winner of Århusvand Idea Competition Nov. 2013

"The Energy Producing Waste Water Plant of the Future"

Collaboration with GXN, Green Innovation in Architecture.

Gold Medal Winner at iGEM, MIT, USA Nov. 2010

iGEM: International Genetic Engineering Machine competition A synthetic biology competition hosted by MIT. The aim is to design new genetic engineered microorganisms using interchangeable standard biological parts.

"Best Project Master Level", Grøn Dyst, DTU Jun. 2010

International student competition within sustainable technologies.

OTHER ACTIVITIES

Scouting

I have several times organized scout camps, trips and workshops.

I have been instructing winter mounteneering courses, which sometimes involved stormy -20°C weather. I taught telemark skiing, navigation, building snow caves and avalanche risks, and I always got the team down in one piece, unified as one group and with new skills and friendships.

Biologigaragen

Co-founder of Biologigaragen - a collaborative space for citizen science in Biology. (2010). I functioned as the main coordinator and chairman until recently. We collaboratively organised workshops on biotechnology, molecular gastronomy, urban gardening and food fermentations at home. www.biologigaragen.org

Spare Time

I enjoy being active and outdoors. I currently function as a freedive instructor and have tought open water swimming and climbing. I spend weekends and vacations on skiing, climbing, hiking, diving, underwater hunting, and regular hunting. I practice yoga, i do jogging and I dance tango and contact improvisation. I play piano, harmonica and guitar for sing-along and campfire situations. I have been a professional lifeguard and rescue diver for more than 10 years and I have been on the national team in under water rugby (U21). I write the blog "Folkeforsker" at Ingeniøren. <http://ing.dk/blogs/folkeforsker>