

Douglas Mann

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portfolio www.dougiemann.co.uk

EXPERIENCE_

- Google ATAP** **Interaction Designer** at Google ATAP, helping define, prototype and integrate human-computer interactions for research and future product. Working across Ambient Computing, Spatial UX, UX Engineering, and storytelling.
Oct'21-Feb'23
- Google Creative Lab** **Design Technologist** in the Google Creative Lab. Worked in small, nimble teams of multidisciplinary creatives to initiate playful hardware projects through to launch. Utilized Google's EdgeTPU to design the ML robot, Milo, and it's DIY open-source counterpart, Alto. [Project: Alto >](#)
Oct'19-Jan'21
- DLX Design Lab** **Creative Technologist** freelance work for the Tokyo-based design studio that pairs scientific research with design thinking. Designed and held workshops to explore the use of haptics in new HCI usecases in the home/retail environment.
Jul'19-Oct'19
- Imperial College London** **Mechanical Engineer** in the Blast Injuries Research Lab. Created a sub-\$100 3D-printed prosthesis alternative for KD amputees in developing countries. My role covered the R&D, rapid-prototyping, analysis and on-site research in Tanzania. After Red Cross approval further PhD grants were awarded for R&D at ICL. [Project: Imperial Knee >](#)
May'19-Oct'19
- Arborea** **Mechanical Engineer** at Imperial's Innovation Incubator in BioTech startup, Arborea. Designed the fluid system chassis and architected a larger pilot model, helping secure Series A funding. R&D, DFX, and liaising with manufacturers.
Jan'19-May'19
- NASA Ames Research Centre** **Research Assistant** in the Human Factors division. Developed a device to more accurately measure capacitive touch-screen refresh rate latency, reducing the data captures margin for error from ~120ms to 7ms. Patent pending. [Project: Ctrl-M >](#)
Jul'18-Nov'18

SKILLS USED_

HCI/IxD
User centred design
UX frameworking
UX engineering (js)

IxD, UX, UI, ID
Figma
Embedded Systems
CAE (SW & Fusion)
Rapid-prototyping

Workshop curation
User research
User analysis
Embedded Systems

Rapid-prototyping
Mechanical design
CAD (Solidworks)
CAE (ANSYS)
Stress analysis
User research

Structural design
DFM & DFA
CAE (Solidworks)
Field testing

Embedded systems
Electronics
3D printing
Experiment design

EDUCATION_

- Imperial College London** **(MSc.) Innovation Design Engineering - Distinction**
Full scholarship. Double Master's student in the Dyson School of Design Engineering; experimentation, engineering, and enterprise activities with an emphasis on prototyping and proving technical concepts. Final project awarded gold in International Design Awards and featured on Dezeen and others, totalling ~2m views. [Project: TypeCase >](#)
Sep'16-Jul'18
Masters Degree
- The Royal College of Art** **(MA.) Innovation Design Engineering - Distinction**
Full scholarship. Held at the worlds leading Art and Design School; exploiting creativity to deliver social and economic benefits through design, and to achieve commercial success through innovation. Final project awarded Core77 Design Award, and multiple magazine features, totalling ~500k reads. [Project: Voice Blox >](#)
Sep'16-Jul'18
Masters Degree
- University of Exeter** **(BEng.) Mechanical Engineering - 1st Class Hons.**
A traditional Engineers degree including advanced modules on materials, thermo & hydrodynamics, computational modelling & simulation, mechanical design, mathematics, management. Awarded top marks for final Thesis.
Sep'12-Jul'15
Bachelors Degree

SKILLS LEARNED_

Arduino, RPi
Electronics
Python, C++,
Html, JS, p5
Project management
Storytelling

User-centred design
User-testing
Design thinking
Design research
Design futures
UX/UI/IxD

CAE: CAD, CFD & FEA
Milling, turning, CNC
Manufacturing
Engineering math.
Engineering design

Awards_

2019 Core77 Design Award Winner
2019 3DHubs Grant Commendation
2018 International Design Awards - Gold
2018 European Design Awards - Platinum
2018 Helen Hamlyn's Award for Creativity
2017 ISEA competition - Winner

Exhibitions_

2018, Dubai Design Week, Dubai
2018, Dyson Graduate Show, London
2018, School of Design, RCA
2018, VCC Showcase, ICL Enterprise Hub
2017, Alumni Project Exhibition, 1851
2012, Arkwright Scholar Showcase, UCL

Publications_

2020, Dezeen, Global (TypeCase)
2019, 3D Hubs, (TypeCase)
2019, Student Design, Netherlands
2019, Interaction Magazine, Global
2018, Interesting Engineering, Global
2018, Techworld, UK
2018, AXIS Magazine, Japan
2017, China Daily, China

Patents_

Tactile language learning tool,
(GB1800839.1)
NASA Capacitive touch-screen response
latency measure, (pending)