



# Douglas Mann

email [douglas.mann@network.rca.ac.uk](mailto:douglas.mann@network.rca.ac.uk)  
portfolio [www.dougiemann.co.uk](http://www.dougiemann.co.uk)

## EXPERIENCE\_

## SKILLS USED\_

**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

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

**Google Creative Lab** **Product Designer** 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

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

**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

Workshop curation  
User research  
User analysis  
Embedded Systems

**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

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

**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

Structural design  
DFM & DFA  
CAE (Solidworks)  
Field testing

**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

Embedded systems  
Electronics  
3D printing  
Experiment design

## EDUCATION\_

## SKILLS LEARNED\_

**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

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

**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

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

**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

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

## Awards\_

## Publications\_

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

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

## Exhibitions\_

## Patents\_

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

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