

# Douglas Mann

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Portfolio www.dougiemann.co.uk

## Experience --

<b>Google</b> Oct'19-present Contract	<b>Product Design Engineer</b> in the Google Creative Lab. Provided creative and technical knowledge to assist and initiate projects to launch. Worked in small, fast-paced teams of multidisciplinary creatives to design hardware projects using Google's latest research. <a href="#">Project Alto &gt;</a>
<b>Imperial College London</b> May'19-Oct'19 Freelance	<b>Mechanical Engineer</b> in the Blast Injuries Research Lab. Created a novel 3D-printed prosthesis alternative for KD amputees in developing countries. My role covered the R&D, rapid-prototyping, and assisted field research in Tanzania. <a href="#">Project Imperial Knee &gt;</a>
<b>Arborea</b> Jan'19-May'19 Freelance	<b>Mechanical Engineer</b> at Imperial's Innovation Incubator in BioTech startup Arborea. Scaled a sustainable agriculture lab-experiment and architected a larger pilot model. Focus on R&D, DFM, and liaising with contract manufacturers.
<b>NASA Ames Research Centre</b> May'18-Oct'18 Contract	<b>R&amp;D Engineer</b> in the Fatigue Countermeasures Lab, Human Factors. Developed a device to more accurately measure capacitive touch-screen refresh rate latency. Worked with a Sr Software Engineer to explore and experiment solutions. <a href="#">Project Ctrl-M &gt;</a>
<b>Notpla</b> Jun'17-Sep'17 Internship	<b>Design Engineer</b> at sustainable seaweed-based packaging startup, Notpla. Prototyped a new production method to help transition to mass production, and designed alternate use-cases in an effort to drastically reduce our consumption of single-use disposables.
<b>University of Exeter</b> Jul'15-Oct'15 Internship	<b>Mechanical Engineer</b> in the Computer Science Department. Tasked with restoring an early mechanical computer for showcase in an educational museum setting. Developed proficiency in machine shop skills and CAE.

## Skills used --

Rapid-prototyping  
Embedded systems  
DFM & DFA  
CAE (SW & Fusion)  
Product design/UX/UI  
  
Rapid-prototyping  
Mechanical analysis  
CAE (Solidworks)  
Machine shop op  
User research  
  
Structural design  
DFM & DFA  
CAE (Solidworks)  
Field testing  
  
Embedded systems  
Electronics  
3D printing  
Experiment design

## Education --

<b>Imperial College London</b> Sep'16-Jul'18 Masters Degree	<b>(MSc.) Innovation Design Engineering - Distinction</b> Double Master's student in the Dyson School of Design Engineering; experimentation, design, engineering, and enterprise activities with an emphasis on prototyping and proving technical concepts. <a href="#">Project TypeCase &gt;</a>
<b>The Royal College of Art</b> Sep'16-Jul'18 Masters Degree	<b>(MA.) Innovation Design Engineering - Distinction</b> 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. Full scholarship. <a href="#">Project Voice Blox &gt;</a>
<b>University of Exeter</b> Sep'12-Jul'15 Bachelors Degree	<b>(BEng.) Mechanical Engineering - 1st Class Hons.</b> A traditional Engineers degree including advanced modules on materials, thermo & hydrodynamics, computational modelling & simulation, mechanical design, management, mathematics. Top marks for dissertation on the design and development of custom orthoses.

## Skills learned --

Arduino, RPi  
Electronics  
Python, C/C++  
Project management  
Communication  
  
User-centred design  
User-testing  
Design thinking  
Design research  
UX/UI  
  
CAE: CAD, CFD & FEA  
Metalwork  
Woodwork  
Manufacturing  
Engineering math.  
Design thinking

## 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

## Publications --

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

## Exhibitions --

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

## Patents --

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