JOY Q ZHANG

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optimist and leader with 4 years of international experience in engineering, user experience design, and building startups

more info at **joyqzhang.com**

***** English
**** Chinese
*** Spanish
* French

VENTURES
UX DESIGN
ENGINEERING

EDUCATION

Imperial College London   **Royal College of Art**

Ma/Msc in Innovation Design Engineering, 2021

Georgia Tech

B.S. in Mechanical Engineering Industrial Design minor, 2018 Highest Honors

TOOLS & SKILLS

VENTURES

• Business canvas • Lean Startup methodology • User validation tests • Product/ service pilot design

• Business strategy • Business model development • Market research • Bench- marking • Pitching/ storytelling

UX & DESIGN

• Statistical analysis • Figma• Adobe XD • Photoshop • Illustrator • Futures research

• Design thinking • User research • Ethno- graphy research • Human factors • Design workshop

ENGINEERING

• Solidworks • Autodesk Fusion • Inventor • Matlab • JMP • Excel • JS • Arduino • Python

• Rapid prototyping • Mechanical design • DOE • DFM • Six Sigma • Overseas manufacturing

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EXPERIENCE

BROMPTON
Service Design intern
Aug- Oct 2020
London, UK

allphins
UX/UI intern
June- Aug 2020
[remote]

acorn product development consultancy
Design Engineer temp
May- Sept 2019
Atlanta, GA, USA

IDEO
CoLab Design Fellow
April 2019
San Francisco, CA, USA

Manufacturing Design Engineering intern
June- Dec 2017
Cupertino, CA, USA & Shanghai, China

Schlumberger
Riboud R&D intern
Sept- Dec 2016
Clamart, France

FCA FIAT CHRYSLER AUTOMOBILES
Quality Engineering rotational co-op
Jan 2015- Aug 2016
Auburn Hills, MI, USA

VENTURES / PROJECTS

NewNews chrome extension creator   -London, UK   May-June 2020
• Built and published sentiment analysis chrome extension to reduce information anxiety during first lockdown.

FIJI censorship goggles co-creator   -London, UK   Dec 2019
• Designed and prototyped functional product with Raspberry Pi and Google Tensorflow object detection.
• One of six Year 1 projects exhibited at 2020 annual Imperial College design engineering WIP show.

Spore surfaces (sponsored by COMPAC) co-creator   -London, UK   Oct-Dec 2019
Phase I startup at the Imperial College WeInnovate Incubator for female entrepreneurs
• Designed speculative inorganic-organic hybrid material with probiotic bacteria for the year 2030.

Catcall Control co-creator   -Atlanta, GA, USA   April-May 2018
• Built Arduino-based tangible interaction game exploring the experience of street harassment.

Idea to Prototype (I2P) 2nd Place Winner & CTO of "baag" -Atlanta, GA, USA   Jan-May 2017
• Led product development, rapid prototyping, and 33 field interviews to find market trends.
• Won 2nd Best Overall I2P Project at Incubator Showcase, April 27, 2017.
• Designed aesthetic and mechanical encasing of machine vision device for fly pollination trials.

Airship Product Design/Development Lead -Atlanta, GA, USA   June-Aug 2018
Accelerate level startup at ATDC (Atlanta Technology Development Center) incubator
• Directed product development strategy and beta test planning for 3 ecommerce collaborators.
• Led development of 1 manufacturing technique, 4 unique prototypes, and 6 usability studies.
• Strategized feature matrix of solutions for enabling circular economy in ecommerce packaging.

AWARDS

• 2020 Industrial Design Studentship at the Royal Commission of 1851 • 2019 WE-Innovate Imperial Phase I startup• 2018 Women in Engineering Ford Scholarship • 2017 1st Place winner of Betchtel Inflatable Scaffold Design Competition (MindSumo) • 2016 Wohlford Scholar • 2016 Bill Sayle Scholar • 2015 GE Women's Network Scholarship • 2015 Foundation of the Association of Energy Engineers (FAEE Scholar- ship) • 2015 Women in Engineering Dow Chemical Company Scholarship • 2014 SanDisk Scholarship • 2014 School of Civil Engineering Best Undergraduate Research Award (NSF Geomechanics research) • 2014 Robert Heinlein Scholarship • 2013 Excelon Corporation Scholarship • 2013 Zell Miller Scholarship