

# Rowan Dixon

Designer - Builder - Maker

## Employment

### 2020 - present **Tewke - Co-founder & Product Design Lead**

*Tewke is a home IoT start-up, developing home automation devices.*

- Led the product development Tewke's flagship smart home OLED touchscreen device to control IoT and electronic devices in the home.
- Lead the physical development of the hardware products and ensure that the product is easy yet exciting to use.
- Prototype usable electronic devices for testing, using 3D printers, Raspberry Pi's, Arduino's, touchscreens, batteries and custom PCB's.
- Create solutions to problems thought impossible within the industry.
- Responsible for defining the product use cases and specifications to ensure devices meet Tewke's vision, and are accessible across users.
- Work with the digital design team to create immersive experiences for users, and explain complex systems simply and intuitively.
- Develop new technologies to enable the Tewke vision of seamless home automation and energy optimisation.
- Lead designer and engineer on a patent to change home automation.
- Design Tewke products to be sustainable, easy to use and repair.

### 2020 **Microsoft (Contractor) - Product Design and Engineering**

- Performed research and development on a new product category, working with an international team.
- Worked with senior managers and creatives to direct the vision of the product, to change how people use devices within the home.
- Designed the full hardware solution and created photo and video renders to be used with user testing and internal development.
- Designed and prototyped an electro-mechanical solution to demonstrate the product, and presented to Microsoft Surface team.

## Education

### 2016-20 **Imperial College London - Design Engineering MEng (GPA: 3.7)**

*A new course at Imperial with a heavy focus on project work with an even split between group and individual projects, fusing engineering and design thinking.*

**Key Modules Covered** – Engineering Design, Materials, Computing, Electronics, Thermal Dynamics, Sensing and IoT and Solo Research Project.

Design Engineering at Imperial gave me the opportunity to work across the product spectrum, from hardware engineering, to electronics, software and UX and UI design. I grew a passion for designing products that users would enjoy to use, without compromising functionality.

### 2023 **HyperionDev Python Course (98%)**

In early 2023, I did a 3 month Python bootcamp course to keep up to speed with software engineering.

## Responsibilities

### 2019-20 **Chair of Design Engineering Society - Imperial**

Managed a team of 13 to organise academic and social events for 500+ members of the society and helped direct the society's future.

### 2016 - Present **Expedition Leader**

Lead expeditions to remote parts of the world, including crossing the Sahara desert twice and a 3 week mountaineering expedition to the Alps.

www.RowanDixon.com

Rowan.Dixon@hotmail.co.uk

+44 7923203207

## About me

I love building, making and breaking, from designing touch screen devices, to making petrol go-kart's from a lawnmower and a pedal kart found in a skip, it is what gets me up in the morning. I am fortunate to lead an incredible team, and together we have one goal, to deliver the best experience for consumers in the smart home, which is an industry that is currently going through a seismic shift. Co-founding a start-up meant I had to quickly learn to work effectively across different disciplines, from engineering and design, to business and operations. In my spare time, I love to go mountaineering and hiking with friends, and follow F1 and innovations in the world of engineering and technology.

## Skills

### Software:

- Python

### Engineering:

- Rapid prototyping
- CAD: SolidWorks & Fusion360
- FEA on mechanical systems
- Design for manufacture (DFM)
- PCB layout: KiCAD
- 3D printing: SLS, SLA & FDM

### Other:

- Leadership
- User research
- Cross-functional collaboration
- Film making

## Extra Curricular

### Awards:

2019 - P&G Product Innovation Award

2018 - Grantham Institute Sustainable Water Bottle Design and Brand

2018 - Dyson School of Design Engineering - 2nd

2014 - RAF Flying scholarship

2013 - RAF Gliding scholarship

### Volunteering & Sports:

- University Newspaper writer
- Young Scout Leader
- Mountaineering
- CCF Officer
- Ultra Marathons (trail running)
- Youth Ski Instructor

UK Citizen

References available upon request