

# Resume

## Education

- + MA Innovation Design Engineering  
Royal College of Art • London, 2020 - 2022
- + MSc Innovation Design Engineering  
Imperial College • London, 2020 - 2022
- + BEng Hons Mechatronics Engineering  
Ulster University • Northern Ireland, 2014 - 2018

## Experience

- + Solarpunk Industries  
Founder • Sept 23 - Ongoing
- + Wateraware Collective  
Co-founder & CTO • July 22 - Dec 23
- + Imperial College - Dyson School of Design Engineering  
Visiting Tutor • Sept 21 - Ongoing
- + Cobra Collective (NGO)  
Researcher & Field Engineer • March 23 - Ongoing
- + St. Pauls Girls School  
Computer Science & Technology Consultant • Sept 22 - Ongoing
- + Surfers Against Sewage (NGO)  
Ocean Activist • May 22 - Ongoing
- + Blueshift Education  
Creative Coding Teacher • Sept 21 - Sept 22
- + Sensata  
Systems Design Engineer • July 18 - Sept 20
- + Jaguar Land Rover  
Undergraduate Design Engineer • June 16 - June 17
- + Apple  
Specialist • Nov 13 - June 16
- + Lighthouse Charity Belfast  
Counsellor Volunteer • Jan 18 - Sept 19

## Awards

- + International Design Excellent Award (IDEA)  
1st Gold • Vo& Airro
- + Helen Hamlyn Design Award for Creativity  
Royal College of Art • Neaho
- + Santander UK National X Awards  
Finalist • Wateraware Collective
- + Imperial College Venture Catalyst Challenge  
Finalist - AI & Robotics Track • Wateraware Collective
- + IMEche Best Final Year Project  
Ulster University • Mechatronics Engineering
- + Duke of Edinburgh Award  
Gold 2014 • Silver 2012 • Bronze 2011

## Skills

- + **Hardware**  
Embedded Systems (Teensy, ESP32, Arduino, Raspberry Pi, Nvidia Jetson)  
Camera Systems (RPI, ESP-CAM, ZED) • CANbus (CANoe)
- + **Software**  
C++ • Python • HTML-CSS-JS • Tensorflow • Pytorch • YOLO • ROS • Processing  
Rhinceros • Figma • MS Office Suite • Adobe CS • ArcGIS
- + **Design**  
Design Process (User Research, Ideation, Prototyping, Information Architecture, Testing & Validation) • Human Centred, Inclusive & Sustainable Design  
Digital + Physical Prototyping & Experimentation • Storytelling • Documenting
- + **Engineering**  
Mechatronics • Systems Design • Control Systems • Computer Science • Robotics  
Circuit Design • Digital Signal Processing • Data Analysis • AI/ML Model Development
- + **People**  
Leadership • Teamwork • Mentoring • Cultural Competency • Conflict Mgmt
- + **Business**  
Strategy • Project Mgmt • Market Research & Analysis • Product Development  
Pitching • Sales & Marketing • Financial Mgmt • Resilience & Grit
- + **Education**  
Pedagogical • Technical Proficiency • Ethics & Responsible Design • Safeguarding

## Building Core Skills    Refining & Focusing    Developing Expertise

