

## EMPLOYMENT

NOV 2020  
PRESENT

TAUR | Senior Electronics Engineer | Aug 2022 - Present

- Managed the testing of hardware, working closely with the firmware engineers to debug issues and validate the design
- Took the product through the EMC and FCC testing process and made fixes, resulting in certification
- Built bed-of-nails and wrote software to automate testing and upload to a backend for batch tracking
- Established a supply chain during covid chip shortage and worked with CEMs to manage manufacturing
- Oversaw the successful iOS & Android app development, including testing for product integration
- Developed firmware in C++ to test new features for next generation scooter
- Worked with C-suite and a diverse range of stakeholders to manage project timelines and costs
- Relocated to the United States for four months to lead a team setting up a manufacturing facility

Electronics Engineer | Nov 2020 - Aug 2022

- Built designs from specifications into block diagrams, to schematics and PCBs using Altium
- Designed wireless communications, low power designs, and BLDC motor controllers working with wired protocols including UART, SPI & I2C
- Authored assembly manuals and worked on the production line to improve the final assembly procedure
- Worked with external suppliers in China to develop wiring and battery charging solutions

JUL 2017  
NOV 2020

Artistic Licence | PCB Design Engineer

- Multilayer PCB design on products ranging from high speed networking to handheld monitors
- Built and tested prototype PCBs to ensure full functionality and implemented DFM feedback
- Small scale manufacture of products, including hand-soldering QFN and TQFP packages
- Led EN/UL compliance on designs and created guides to streamline the process on new products
- Worked with manufacturers to solve supply issues and facilitate a quick turnaround on orders
- Provided technical support for company products over the phone to customers

JAN 2015  
JUL 2015

SP Energy Networks | Connections Engineer

- Worked in the connections team for a 6 month placement
- Designed cost effective connection points tailored to customers requirements

SUMMER  
2013&14

Nanoco | Design and IT Intern

- Worked as part of a small internal design team for two months to produce parts needed for R&D tasks
- Two month placement, working in IT team providing Tier 1 support

## EDUCATION

2015  
2020

University of Bath, MEng Integrated Mechanical & Electronic Engineering with Integrated Design: 2:1  
Modules of particular interest: Mechatronics, User Centred Design, Product Design and Development, Design Optimisation, Group Design and Business Project

2001  
2014

Birkenhead School  
A levels: Mathematics A, Physics A, Further Mathematics B, Design & Technology: Systems B

## RELEVANT PROJECTS

Handheld Monitoring Device | Artistic Licence

- Customers requested a product to connect to any DMX/DALI device to allow programming on the go
- Challenges included IC selection to fit features into the limited space and creating a universal connector
- Final product was a rechargeable device with Bluetooth connectivity to an app and a user-friendly display

Semi-Autonomous Spherical Robot | University of Bath

- Group Project at university to design & build a spherical robot with WiFi communication to complete tasks
- Took lead on electronics and software to implement movement and searching elements of the design
- Robot successfully completed all set challenges and received the highest mark on the course

## SKILLS AND INTEREST

SOFTWARE Advanced in Altium, Spice, Solidworks, Autodesk Suite, MATLAB & Simulink, Adobe Photoshop/InDesign/ Microsoft Office as well as other engineering software

SKILLS Soldering, Fault Finding, 3D Printing, Machine Tools, PCB Design

SPORT Compete in Triathlon up to Ironman 70.3 events, Running, Skiing