

# K.K. Wopat

## Professional Summary

Dynamic and innovative mechanical engineer with 9 years of experience in product design, concept development, rapid prototyping, and design for high-volume manufacture. Proven ability in creating innovative solutions and leading cross-functional teams to deliver market-ready products. Demonstrated success in securing funding, managing development timelines, and ensuring product quality.

## Education

2019-2020 **GLASGOW SCHOOL OF ART, GLASGOW UK** MSc with Distinction, Product Design Engineering

2011-2015 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE US** BS, Mechanical Engineering, Minor in German

## Professional Experience

- Feb 2024- **LOTUS TECHNOLOGY INNOVATIVE, LTD LONDON UK (REMOTE)** Hardware Innovation Engineer  
Aug 2024 • Worked alongside industry leaders in cycling product development to understand user needs and brainstorm potential E-bike product solutions.  
• Proposed product solutions based on best fit with brand identity, consumer insights, and development constraints including budget and timeline.
- Oct 2020- **NEBU~FLOW, LTD GLASGOW UK** Mechanical Engineer & Product Owner  
Feb 2024 • Defined functional requirements, delivery timelines, and milestones for prototype development by working closely the founder, technology leads, and user focus groups.  
• Created a working nebulizer prototype based on surface acoustic wave transducer, successfully securing £2M of seed funding.  
• Integrated and validated new product features, including microfluidic liquid delivery system, thermal management, and device feedback.  
• Established company practices for weekly engineering dashboards and tracking updates.
- Jul 2015- **APPLE, INC. CUPERTINO US** Haptics Product Design Lead  
Jul 2019 • Led a mechanical design team of three product design engineers.  
• Designed and integrated individually owned components & sub-assemblies into overall mechanical design of haptic module shipped in iPhone 7+, iPhone X, and Apple Watch Series 4.  
• Ensured process capability by design, owned and reviewed component and assembly tolerance analysis, and interaction with suppliers in China & Japan on-site.  
• Led failure analysis investigation of assembly components, identified root cause of reliability test failures, and implemented design improvements to resolve potential product field risks.  
• Communicated critical design checkpoints to cross-functional stakeholders up to the executive level.

## Skills & Certifications

**PROJECT MANAGEMENT:** Google Project Management Professional Certificate, cross-functional team management, stakeholder analysis, requirements gathering & traceability, product validation, communication, collaboration, strategy, leadership

**PRODUCT DESIGN & MANUFACTURING:** DFM & DFA, tolerance analysis, sheet metal stamping, metal injection moulding, metal casting, PCB/Flex design, rapid prototyping (3D printing, laser cutting, hand tools), CAD/FEA

**SOFTWARE:** Microsoft Office (Word, Excel, PowerPoint), Wrike (Project Management), Adobe Suite (Illustrator, Photoshop, InDesign, XD), JMP, LabVIEW, CAD (Fusion 360, Siemens NX), PLM (TeamCenter)

**SCRIPTING & PROGRAMMING:** MATLAB, Arduino/C++, Python

## Languages

**ENGLISH** Native

**GERMAN** Conversational

## Hobbies

**SPORT** Cycling (road, gravel, bikepacking), Running, Wild Swimming, Wakeboarding, Kitesurfing

**CREATIVITY** Photography, DIY, Violin, Guitar