

Seamus Rowe

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PERSONAL STATEMENT

Industrial product engineer with 10 years' experience in new product introduction and leading multidisciplinary R&D teams.

As the Co-Founder of Dotterel Technologies I led the design and productization of the Konos Microphone system used in entertainment and government sectors.

I possess a broad technical skillset and proven resilience, having successfully managed production through significant global supply chain disruptions. With the recent launch of the Konos 2, I am eager to apply my expertise to new industries.

WORK HISTORY

Dotterel Technologies

Auckland, New Zealand
2015 - Present

Founder - Product Lead/ Designer /R&D Team lead

- › Defined product vision and strategy based on stakeholder requirements gathered from diverse groups (single operators to government agencies) and prioritised development of high value features.
- › Managed a multidisciplinary R&D team including two PhD-level experts.
- › Led mechanical design of the Konos Microphone System, taking 3D printed concept designs to manufacture resulting in an award-winning product.
- › Directed the software team provided testing and debugging on product features built in C/VHDL resulting in a stable product for government customers. Firsthand design of Konos 2 firmware updates, Designed "Konos Control", AWS lambdas and S3 implementation for firmware updates.
- › Electrical / mechanical design and production of drone platforms with a version used in production.
- › Designed and built testing equipment and software (python) for QA/QC of the Konos microphone system leading to a higher test accuracy rate.

LanzaTech

Auckland, New Zealand
2012-2014

Electrical - Software Engineer

- › Designed and built custom bioreactors to reduce costs by 60% compared to off the shelf solutions.
- › Consulting with scientists and developing hardware or software in LabView to meet their requirements.
- › Organizing production of parts from local and overseas suppliers.

QUALIFICATIONS

TECHNICAL SKILLS

- › MS Office 365, MS Teams, Trello, Asana
- › Electronic Design Principles
- › Software Design Principles (Kotlin, Python, C/C++, IntelliJ IDEA)
- › 3D CAD/ Design (Fusion360, OnShape, 3D Printing, Affinity Suite, (Rhino3D, Vray)
- › Graphic Design (Affinity Suite)
- › Electrical (Soldering, PCB debugging, PCB rework)

CORE COMPETENCIES

- › Mechanical Design - Designed the mechanical housing of the Konos product, R&D experience in CNC machining, Extrusion, Die casting, Vac-forming/ Injection moulding.
 - › Electrical design - Wire harness design producing detailed instructions and outsourcing assembly.
 - › Software design - Top level design of audio test tools, hands on design of Kotlin Multiplatform applications.
 - › Leadership and Collaboration - Managed a multidisciplinary R&D team. Managed a team for new product introduction.
 - › Stakeholder Management and Communication - Effectively engaged diverse stakeholders (consumer to government agencies), translating feedback into actionable requirements and managing expectations.
 - › Technical Domain Expertise - Strong understanding of interconnected software/hardware ecosystems, ability to transfer knowledge between different specialist teams.
 - › Problem Solving & Decision Making - Ability to adapt and navigate complex challenges such as supply chain disruptions to meet product goals.
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ACHIEVEMENTS

- Engineering New Zealand, Engineering Innovation Award - Product 2023
[ENGINEERING INNOVATION AWARD | ENVIS](#)
 - Best Design Awards 2023 - Gold
[Konos Microphone | Best Awards](#)
 - Good Design Award AU - 2023
[Konos Microphone - Good Design](#)
 - NAB Show Product of the Year award 2023.
 - Techstars Accelerator 2017 (Defence and Security)
 - Newsshooter [Most Innovative Product of NAB 2016](#)
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REFEREES

On request.