JAZZY LEELO

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PROFESSIONAL SUMMARY

I'm an interdisciplinary design engineer and researcher navigating the intersection of advanced technology, cyberphysical design, and holistic wellness. I combine a background in clinical biomechanics and decolonial research methodologies to prototype inclusive, community-led, cyberphysical systems. Experienced in community-based participatory research, low-noise wearable biopotential hardware, and bridging the gap between raw electronics and the anatomical realities of the human body, translating quantitative and qualitative insights into actionable technical architectures.

EDUCATION

UAL, Central Saint Martins | London, UK **MA Design for Industry 5.0** | *2025 – 2027*

- **Focus:** Connected devices (IoT), system architecture, hardware product development, and data-driven design.
- **Thesis:** Investigating the technical and ergonomic requirements for remote physiological monitoring systems, centring inclusivity, accessibility, and user autonomy.

Royal College of Art | London, UK **Graduate Diploma Art + Design - Distinction** | *2025*

- **Focus:** Prototyping experimental hardware interfaces and user interaction models; speculative prosthetic design propositions in response to user research.

Queen's University | Canada **BSc. Honours, Kinesiology and Health Studies – 3.99 GPA** | *2019 – 2023*

- **Focus:** Human Physiology, clinical biomechanics, research methodology, and statistical validation.

DESIGN ENGINEERING + PROTOTYPING EXPERIENCE

Creative Technologist | **KINEX Wearable Kinematics System (UAL x Össur)** | *09.2025 – 01.2026* |
iF Design Student Award Winner 2026

- Designed and developed mechanical components and custom enclosures to successfully mitigate soft-tissue artefacts and sensor migration on the human body.
- Conducted rigorous physical tests to validate the mechanical performance of IMU and EMG sensors, utilising high-speed optical tracking software to establish an absolute biomechanical ground truth.
- Participated in the iterative assembly and testing of physical prototypes, actively researching and integrating novel textile straps to improve continuous mechanical coupling across dynamic human movement.
- Collaborated directly with engineering leads to resolve the technical challenges of matching theoretical hardware capabilities with the physical constraints of end-users.

Hardware-Firmware Prototyper

Adaptive Optical Biosensor | *01.2026 – 04.2026*

- Prototyped low-noise analogue circuitry on custom printed circuit boards specifically engineered to isolate microvolt-level biopotential signals, directly mirroring the hardware noise constraints of electroencephalography (EEG) and neuromodulation devices.
- Assembled and tested hardware-in-the-loop architectures to validate signal integrity, mitigating ambient environmental interference through physical shielding and strict component grounding.
- Maintained accurate, highly detailed documentation of circuit iterations, noise floor calculations, and component bill of materials (BOM) to support quality control procedures and hardware feasibility analysis.

Fermentation Tracker: ESP32 Acoustic Monitor | *01.2026 – 04.2026*

- Integrated hardware components (MEMS microphones, I2S peripherals) into a compact physical form factor, balancing mechanical constraints with power consumption requirements.
- Engaged in iterative physical assembly, testing continuous active current draws and modifying the hardware footprint to establish multi-day battery viability.

COMMUNITY + OPERATIONAL EXPERIENCE

Crisis Intervention and Hotline Support Worker | Crisis Centre BC, Survivors of Bereavement by Suicide (SOBS) UK, Sexual Assault Centre Kingston | *09.2019 to 09.2025 intermittently*

- **Trauma-Informed Care**: Provided immediate crisis de-escalation and emotional support across multiple hotlines for victims of sexual assault ages 12+, navigating highly sensitive disclosures with cultural safety and active listening.
- **Systemic Navigation**: Assisted individuals in navigating complex healthcare barriers and systemic infrastructures.
- **Ethical Data Handling**: Maintained rigorous confidentiality and safeguarding protocols, developing critical skills in dynamic risk assessment and the ethical management of vulnerable community data.

Workflow and Content Strategist | Freelance Creative | *08.2023 to 12.2024*

- **Stakeholder Translation**: Worked freelance and contract with local business and artists to synthesised abstract concepts into cohesive visual outputs, coordinating directly with technical production teams to resolve operational bottlenecks and establish transferable process notes.
- **Digital Archiving and Data Architecture**: Directed the end-to-end lifecycle of over 10,000 digital assets, implementing strict metadata categorisation and version control workflows to support accessible data repositories.
- **Technical Execution**: Processed high-volume deliverables under strict deadlines, ensuring all outputs met rigorous technical specifications for cross-platform deployment.

Harm-Reduction Workshop Coordinator | Connect to Care, Foundry BC | *01.2018 to 08.2020*

- **Youth Leadership**: Founded a youth collective in British Columbia, Canada to promote the education of local healthcare and social services amidst the opioid crisis.
- **Community-Led Facilitation**: Designed and facilitated community workshops focused on harm reduction, integrating trauma-informed care to support individuals navigating systemic addiction and trauma.
- **Relational Methodologies**: Cultivated safe, inclusive environments for youth to share lived experiences, build community trust, and develop collective resilience; these insights advised larger networks of care via Foundry BC.
- **Decolonial Frameworks**: Applied systems thinking to challenge reductionist healthcare models, shaping grassroots interventions that prioritise holistic embodiment and community autonomy.

CORE COMPETENCIES

Research Methodologies: Community-based participatory research, qualitative thematic analysis, decolonial frameworks, reflexive analysis, research ethics.
Hardware Assembly: PCB population, soldering, physical component mock-ups, isolating microvolt-level signals.
Mechanical Prototyping: hardware integration, wearable enclosure design, textile integration, ergonomic form factor development.

CERTIFICATIONS + AWARDS

Awards: iF Student Design Award (2026), UAL International Postgraduate Scholarship (2025), Queen's University Dean's Honour List (2023).
Certifications: Applied Suicide Intervention Skills Training – ASIST (2024), Suicide Alertness Training – safeTALK (2024), TCPS 2: CORE (Research Ethics) foundation in data privacy and user ethics (2023)