

Ruta Arizona Czaplińska

Designer & Engineer

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I'm a Designer and Engineer with 4+ years of experience working in product development within SMEs, startups and the research sectors. I have primarily worked within the medical and consumer electronics industry. During my postgraduate studies at Imperial College London and Royal College of Arts I developed my practice in sustainable materials, especially bioplastics.

PROFESSIONAL BACKGROUND:

Graduate Teaching Assistant
Imperial College London., PT

Oct 2024 - Jun 2025

Provided support for Level 7 university modules guiding students through technical projects requiring electronic and mechanical systems integration. Offered hands-on assistance during laboratory sessions, helping students troubleshoot design challenges and implement engineering solutions.

Innovation Design Engineer
CipherX Technologies Ltd., FT

July - Sept 2024

As an Innovation Design Engineer at CipherX Technologies, I researched applicator mechanisms and liaised with a manufacturer to create a custom version, defining user needs and product requirements. I designed an prototyped mechanism solutions as well as some packaging components. Created visual communication of the core technology for funding applications. Conducted experiments in the lab on methods of application and forces required for successful penetration.

Product Design Engineer
ONONA Ltd., PT

2022 - 2023

I conducted electronics disassemblies of competitor products in the sexual wellness space and documented detailed disassembly reports to inform product development. I generated concept designs and mechanisms, creating and testing prototypes to validate key features. This role involved a hands-on approach to innovation, combining technical analysis with creative problem-solving in a rapidly evolving industry.

Product Design Engineer
INDO Lighting Ltd., FT

2021 - 2022

As a Product Design Engineer at INDO Lighting, a pioneering manufacturer of LED lighting systems, I led the design and prototyping of new products tailored to client needs and industry trends. I developed experimental rigs for design validation, authored comprehensive design specification documents of LED lighting systems. I also liaised with Operations, Sales, and Marketing teams to coordinate successful product releases. My role also involved standardising new product introduction design and testing requirements, liaising with external contractors, creating Bills of Materials for both new and existing products, researching new technologies and component upgrades, and producing product visualisations. This multifaceted experience honed my skills in innovative product development.

Design Engineering Intern
Aergo Health Ltd., FT

June - August 2020

I defined user requirements and technical design specifications for the packaging of the flagship product, the Aerseat (dynamic postural management solutions for wheelchair users). I designed its packaging and developed CAD models to visualise and refine the packaging during development. This role required a blend of user-centered design and technical expertise to enhance the comfort and functionality of our innovative seating solutions.

Engineering Intern
Ricardo Ltd., FT

2021 - 2022

As a Design Engineering Intern at Aergo Health, a company specializing in dynamic postural management solutions for wheelchair users, I defined user requirements and technical design specifications for the packaging of the flagship product, the Aerseat. I designed its packaging and developed CAD models to visualise and refine the packaging during development. This role required a blend of user-centered design and technical expertise to enhance the comfort and functionality of our innovative seating solutions.

ACADEMIC BACKGROUND:

MSc / MA Innovation Design Engineering
Imperial College London, RoyalCollege of Art

2023-2025

Developed a multidisciplinary approach to problem-solving, integrating design, technology, and engineering. Engaged in user research and innovation, with projects focusing on development of biomaterials, sustainable manufacturing, and medical device development. Collaborated with industry partners like DFS Furniture and startups at InnovationRCA. Gained hands-on experience in product design, machine learning applications, and lifecycle analysis.

Award holder for the Royal Commission for the Exhibition of 1851 Industrial Design Studentship

MEng Mechanical Engineering (Biomedical Theme)
University of Southampton

2016-2021

Development of Microdialysis Healthcare Sensor: Investigation of venous insertion of a microdialysis probe and design of a mechanical probe applicator.

OTHER EXPERIENCES:

2024 Great Exhibition Road Festival 1851der Tent

June 2024

I co-developed the "Stellar Streams" exhibit for the Great Exhibition Road Festival in South Kensington, London—a renowned annual event celebrating science and the arts, which attracted approximately 54,000 attendees over the weekend. Collaborating with an astronomer Dr Alex Riley, we created an interactive experience that demonstrated the formation of stellar streams. Our exhibit illustrated how gravitational interactions between galaxies lead to the unraveling of smaller satellite galaxies, forming long, thin streams of stars. This project effectively combined design and astronomy to engage the public in understanding complex astrophysical phenomena.

SKILLS:

Communication, Team work, Time management Leadership, Science Communication

3D printing, LaTeX, Arduino (C) Python, MATLAB, Solidworks, Rhino, Fusion 360, Affinity Designer, Illustrator, Keyshot



IMPERIAL