

Emilia Ziolek

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Summary

- Level 8 Bachelors of Science in Product Design & Technology – Four years completed with accumulated QCA of 3.61/4 (graduation: Aug 2025)
- Third place & Founder's Choice Winner for BEOPEN's Design for Climate Action Competition in June 2024 for Project "Tidal Turbine Redesign with Biomimicry". Presented projected at COP29 in Baku, Azerbaijan in Nov 2024.
- Continuous Improvement CoOp at Stryker, eight-month placement (Jan 24-Sept 24) based on Limerick Site (Joint Replacement), work with Lean, Six Sigma, and Stryker Production System (SPS) tools to improve business processes and engineering operations on the site.
- Top 10 Finalist for Renewable Energy Undergraduate of the Year Award (by gradireland) April 2025.
- Grade B (German Grade: 1,6 – 2,0) for Master Summer School on Future Challenges in Engineering – Class B: Sustainability & Circular Economy abroad in July 2023 in Rosenheim Technical University of Applied Sciences, Germany.
- Engaged in further online education on Sustainability/Circular Economy: Completed Level 5 QLS Diploma on Renewable Energy and non-credit online course on Sustainable Materials Management.
- UL Sustainability Challenge shortlisted applicant for project 'Tidal Turbine Redesign with Biomimicry', running from Nov 2024 – March 2025.
- Proficiency in Microsoft Office, with working knowledge of Solidworks, Affinity Suite (Designer, Publisher, Photo), Adobe Suite (XD, Photoshop, Illustrator) and Blender.
- Over 130+ hours of volunteering with UL Archery Club at University of Limerick, as roles of Events Officer, Public Relations Officer, and Captain from 2022-2025.

Work Experience

• Real World Studio – Stryker (Cork)

Sep 2024 – Oct 2024

Completed a six-week real-world studio project with Stryker Cork, collaborating with an industrial team to redesign a medical device with a focus on ergonomics and ease of use (NDA-compliant). Utilized techniques such as primary research, simulation, usability testing, and iterative prototyping with various materials to deliver user-centred design improvements

• Continuous Improvement Intern – Stryker (Limerick)

Jan 2024 – Sep 2024

Working with foundational CI principles and GPS systems; Lean Six Sigma, DMAIC, Kaizen, A3 Problem Solving, PPS (Practical Problem Solving), HEP (Human Error Prevention) LSW (Leader Standard Work), Value Stream Mapping and TPM (Total Productive Maintenance). Gained valuable exposure to various aspects of mechanical engineering, form design, material science, and ergonomics, as well as daily interaction with cross-functional teams and stakeholders.

Site representative for 6s (culture of a clean and organised workplace – derived from 5s), organised audits, audit areas and auditors. Working with outside vendors to provide equipment and assets and setup internal communications and platforms for sharing results and tracking action plans.

Education

- **Bachelor of Science in Product Design & Technology** **Sep 2021 – Present**
University Of Limerick

Knowledge in the process of creating, developing, and refining products and systems to solve problems, enhance quality of life and address local and global challenges. Modules covered such as Ergonomics, Materials Processing & Science, Engineering Fundamentals, Design Studio, Design Visualization & Design Research.

Technical Skills

SolidWorks	Intermediate
Blender	Basic
Affinity Suite	Basic
Adobe Suite (Adobe XD, Photoshop, Illustrator)	Intermediate
Microsoft Office	Proficient
Power BI	Basic

Soft Skills

Group work
Presentation
Written Communication
Graphic Communication
Research
Accountability

- **Class B – Sustainability & Circular Economy** **Jul 2023 - Jul 2023**
Rosenheim Technical University of Applied Sciences

Abroad course completed over summer break. Introduction to Circular Economy as a general overview, modules such as Introduction to Circular Economy, Sustainable Development, Sustainability, and company visit to Baufriz.

- **Advanced Diploma in Renewable Energy (CPD/QLS Certified)** **Nov 2023 – Jan 2024**
Janets UK Online Platform

Online self-paced course with final exam with 40+ hours of content. Introductory modules to; Solar energy, Tidal energy, Bio energy, Wind energy and similar along with governance and application principles.

Profile

I have a serious and creative drive towards all my work and always strive to improve my skillset. Throughout my coursework I have gained knowledge and insights in various design ideation techniques and design software. I've done over 25 process books so far in my three years of the course which all have shaped different areas in my expertise.

Languages

English - Native
Polish - Fluent
Spanish - Basic
Korean - Basic

Volunteering

Events Officer – 71 hours
Public Relations – 63 hours
President's Volunteer Award 2022-2024 Gold
Captain (Current) – 67 hours

Hobbies

Archery
Gym
Cars & Motorbikes
Creative Writing & Research

References

Please ask if you require a reference.