

# Emilia Ziolek

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## Summary

- First Class Honours (1:1 – Level 8) Bachelors of Science in Product Design & Technology.
- Biotech Production – Operations (Operator) role in Eli & Company Lilly Limerick as of Nov 2025. Media/Buffer Role.
- 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. UL Sustainability Challenge shortlisted applicant for project 'Tidal Turbine Redesign with Biomimicry', running from Nov 2024 – March 2025.
- 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.
- Proficiency in Microsoft Office, with working knowledge of Solidworks, Affinity Suite (Designer, Publisher, Photo), Adobe Suite (XD, Photoshop, Illustrator) and Blender.
- Over 150+ 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

### • Biotechnology Production - Operator

**Nov 2025 – Current**

Executing media and buffer make-ups, CIP/SIP operations, equipment setup, and cleanroom production tasks under GMP. Proficient in MES, DeltaV, Kneat, and LabVantage for batch records, process control, and quality documentation. Experienced in supporting upstream and downstream activities with strict adherence to safety, aseptic standards, and quality compliance.

### • 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.

### • Supervisor Part-Time – Centra, Limerick

**Oct 2024 – Present**

Working Promoted to Supervisor with responsibility for overseeing daily store operations, staff coordination, and ensuring smooth running of both shop and forecourt. Handled cash management, stock control, orders,

deliveries and customer service. Trained and supported new team members, and ensured compliance standards.

## Education

- **Bachelor of Science in Product Design & Technology** **Sep 2021 – Aug 2025**  
**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 2022-2025 Gold  
Captain – 67 hours

### Hobbies

Archery  
Gym  
Cars & Motorbikes  
Creative Writing & Research

## References

Please ask if you require a reference.