

ABOUT ME

I am a passionate and ambitious person with strong work ethic. I have a profound interest in the application of science in everyday issues and enjoy combining my creative and technical skills in solving problems. By specialising in biomedical engineering I further developed my keen interest in biomimicry and its use in engineering design. I enjoy working in a diverse environment and prototyping through an iterative process to bring new solutions to life. I have honed my product development skills through internships, personal research, online courses and relevant industry events.

EDUCATION

MEng Mechanical Engineering with specialisation in Biomedical Engineering October 2016 - present

University of Southampton, United Kingdom

- Elective modules: Human Factors in Engineering, Orthopaedic Biomechanics, Biomaterials
- Thesis: Development of microfluidic healthcare sensor (First Class)
 - o Design, prototyping and implementation of a mechanical microdialysis probe applicator
 - o Designing and 3D printing artificial vein pattern for experimental rigs

SKILLS

- journey mapping • user research • prototyping • user - centred design • 3D printing • SolidWorks • Siemens Solid Edge • Fusion 360 • Affinity suite • Illustrator • Proficient Microsoft Office (Excel VBA) • MATLAB • Python • Arduino (C) •

WORK EXPERIENCE

Aergo Ltd, United Kingdom June – August 2020

Internship

- Defined User Requirements and Product Specification and designed packaging for the flagship product
- Researched User behaviour for product development, created mood boards and journey maps
- Liaised with manufacturers to obtain quotes and discuss manufacturing capabilities
- Presented the design deck to the team as well as external experts in the packaging field

Ricardo Ltd, United Kingdom July – August 2019

Internship, Automotive Division

- Developed a database of materials used daily by engineers based on Ricardo's portfolio using Excel VBA
- Led benchmarking study of gearbox cases for product development
- Presented results with discussion to the department of Driveline and Transmission Analysis

Digital Creativity Labs, United Kingdom July – September 2018

Scholarship

- Designed and developed a card game intended to teach biology content
- Gamified teaching content of a biology module for University of York
- Planned manufacturing and promotion of the game (including introductory videos and events)

Toyota, Poland September 2017

Internship

- Worked in a team of engineers assessing vehicle performance roadworthiness.

Optosoft, Poland August 2015

Internship

- Designed CAD models in Siemens Solid Edge of CPU 3D printed storage systems

EXTRA-CURRICULAR

Digital Marketing Academy September 2020

- Attended Creative Data Academy (talks on data driven innovation, ethical use of data etc.)
- As a part of a team created a marketing strategy in response to ScotRail's brief (winning concept judged by ScotRail's jury)

Mechanical Engineering Department President October 2018 - present

School of Engineering, University of Southampton

- Managed the representation within the Mechanical Engineering department (ensuring all years are represented)
- Co-chaired Staff-Student Liaison Committees to continuously improve the quality of teaching and student experience
- Attended School Programmes Committees representing interest of mechanical engineering students

AWARDS

'Best Impact' Academic Award Nominee March 2020

Southampton University Students Union, UK

Most Promising Female Engineer Prize Finalist February 2019

Ricardo Ltd, UK

- Nominated by the Director of Programmes of Mechanical Engineering at UoS and shortlisted to top six
- Presented research on "Developing methodology for design and education in biomimicry - the most significant challenge in the next decade"

Interests: Travelling, Art, Muay Thai **Languages:** Native Polish, Fluent English