# KRZYSZTOF WANCERSKI

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## OBJECTIVE

As a Design Engineer, I apply the knowledge and skills gained from my coursework, diverse projects, and hands-on experiences to solve real-life problems for real people. I focus on using my technical expertise in practical scenarios, always considering the user, the context, and the broader environment. My goal is to create innovative and effective solutions that enhance user experience and promote sustainability. I am passionate about using my skills to develop designs that make a meaningful impact on everyday life.

## EDUCATION

**MEng Design Engineering**, Imperial College London 2022-present
Relevant Modules:

- Engineering Mathematics (Wolfram Alpha, MATLAB) – mathematics in engineering, including: multivariate PDEs, optimisation, Laplace & Fourier transforms and finite methods. (79.70%)
- Computing 1 (Git, Linux Command Line, Python): OOP in Python, version control and collaboration using GitHub, navigating, editing files and basic scripting with the Unix command line. (97.90%)
- Computing 2 (JavaScript, HTML, CSS, node.js) – functional programming full-stack development, JS API development, professional documentation with JSDoc, unit testing and UI and UX design. (97.49%)
- Electronics 1 (microPython, ESP32/ESP8266): Circuit design, Wi-Fi/BLE projects, testing and integration. (76.40%)
- Human Centred Design Engineering (Fusion 360, Adobe CC, Arduino IDE, c++) – group project comprising of user research, ideation, development, and the delivery of a final works-like and a looks-like prototype. (70.63%)

**Advanced Levels**, Sixth Form College Colchester 2020-2022
A-levels: Mathematics, Physics, Computer Science, Design and Technology (4A*). AS-level: Further Maths (A).

## EXPERIENCE

**Undergraduate Teaching Assistant** 2022-present
Imperial College London, London, UK

- Assisted year 1 students in their Computing 1 and Mathematics modules in one-on-one and group sessions.
- Explained fundamentals of OOP, working with source control software, and using libraries.

**Academic Tutor** 2022-present
Private Tutoring, London, UK

- Delivered personalized lessons in Mathematics, Computer Science, and Physics to GCSE, A-level students.
- Managed scheduling, payments, and promoted tutoring services.
- Developed engaging lesson plans and maintained a productive learning environment.

**R&D Intern (Testing Team)** July-September 2022
Eppendorf Cryotech Ltd., Maldon, Essex, UK

- Assisted in pre-launch performance testing and validation of ULT freezers.
- Collaborated with Global Marketing on certifying freezers with a sustainability label.
- Utilized SolidWorks, MS Office, Grant data-loggers, and oscilloscopes for testing.

## SKILLS

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|---|---|
| **Programming Languages** | Python, JavaScript, HTML, CSS, C++, microPython, React |
| **Full-Stack Development** | Node.js, Functional Programming, API Development, JSDoc Documentation |
| **Electronics** | ESP32/ESP8266, Arduino IDE, Circuit Design, Wi-Fi/BLE Integration |
| **CAD & FEA** | Fusion 360, SolidWorks, Autodesk Inventor, Ansys Workbench |
| **Prototyping** | 3D Printing, CNC Machining, Rapid Prototyping, Laser Cutting |
| **Testing** | Thermocouples, Granta Data-Loggers, Oscilloscopes, User Testing |
| **Design** | Human-Centered Design, UI/UX Design, Packaging Design, FEA |
| **Project Management** | Team Collaboration, Report Writing, Presentation Skills |
| **Languages** | Polish (Fluent), English (Fluent), German (B1) |
| **Technical Software** | MATLAB, Git, Linux Command Line, VS Code, Overleaf |
| **Creative Software** | Adobe Creative Cloud (InDesign, Illustrator), Vizcom |

## PROJECTS

**Timeline:** Developed a battery-powered hand-operated device for time management, designed to address hyperfocus and time blindness.

- Conducted user research, prototyping, and testing over two terms.
- Utilized Fusion 360, Figma, Arduino IDE, and other tools for prototyping and development.
- Created a fully functional prototype with integrated electronics including an ESP32 driver and e-ink display.

**BinBiotic:** Engineered a smart waste management device to prevent overflowing bins using state-of-the-art sensors and data processing.

- Designed the system to be installed in various environments and used machine learning for predictive analytics.
- Developed the prototype using Fusion 360, C++, and conducted extensive testing and user interviews.
- Delivered a project report and presentation showcasing the system's effectiveness.

Please see www.wancerski.uk/folio for my most recent project portfolio and more information on the above.

## AWARDS

- Recipient of the Institute of Engineering and Technology Future Talent Award supported by the David Family Foundation
- Dean's List in Year 1 (Top 10% grade in the year)
- Winner of the Clive Whybrow Award for excelling in Mathematics
- Second Place in the North-Essex Mathematical Olympiad
- Bronze Award winner in the British Physics Olympiad and the UK Senior Mathematics Challenge