PIOTR MOCZYBRODA

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Delft, Netherlands

OBJECTIVE

Ambitious and dynamic Aerospace Engineering student with extensive teamwork experience on complex engineering projects. With a solid foundation in fluid dynamics, mechanical, and structural engineering, I am driven by curiosity and passion to apply my skills in a professional engineering setting. I excel in environments that require adaptability, teamwork, and meticulous attention to detail.

EDUCATION

Delft University of Technology, Netherlands
2022 - Present

Bachelor's Degree in Aerospace Engineering

Specializing in aerodynamics and mechanics, combining engineering knowledge with experience in CAD design and Python programming.

Technical University of Valencia, Spain
Sep 2024 - Jan 2025

Minor Exchange Programme

Gained insights into design engineering, industrial engineering and economics to obtain interdisciplinary knowledge and perspectives.

I Liceum Ogólnokształcące im. Stanisława Staszica, Poland
2019 - 2022

High School

Program with an extended curriculum in mathematics, physics, and IT.

EXPERIENCE

Elab Education
Oct 2023 - Present

Mentor/Tutor

I assist students in the university recruitment process, helping them prepare for entrance exams in mathematics, physics and first-year engineering subjects, while offering personalized advice on choosing the right degree.

Lambach Aircraft
Sep 2023 - Jun 2024

Aerodynamics Engineer

Focused on aerodynamics optimization using CFD Ansys Fluent and supported the manufacturing process of an aircraft for the British Model Flying Association competition as part of the TU Delft Student Team.

Lambach Aircraft
Sep 2022 - Jun 2023

Structural Engineer

Member of AeroRacers project, responsible for designing and manufacturing process of an aircraft as part of the TU Delft Student Team.

ASB PLOCHEC
Jul 2022

Summer Internship

Worked as an intern at a specialized car repair shop focused on automatic gearbox regeneration and repairs.

PROJECTS

TU Delft
Feb 2025 - Present

Simulation, Verification and Validation

Developed numerical simulation models to analyze the performance of aerospace systems. Conducted verification and validation to ensure accuracy in representing real-world phenomena, supported by theoretical analysis and hypothesis testing.

TU Delft
Feb 2024 - Jun 2024

Research paper on Trend Analysis in the European Aviation Sector

Our team analyzed EUROCONTROL flight data and developed AI-based predictive models for upcoming years under various scenarios. This work provided key insights into national emission trends and recommendations for sustainable aviation policy.

TU Delft
Sep 2023 - Jan 2024

Aircraft Wing Design for Small Passanger Aircraft

Executed aircraft wing design project, covering initial sizing, airfoil selection and comprehensive control surface design, followed by primary component integration. Developed a wing box structure with detailed load-case and failure analyses, integrating aerodynamic efficiency with safety requirements

TU Delft
Nov 2023 - Dec 2023

Wind Tunel Experiment

Aerodynamic analysis of 2D and 3D wing models using wind tunnel experiments and computational simulations to assess lift, drag and stall effects. Identification of discrepancies between simulation and experimental results.

CERTIFICATIONS

Digital Skills	Google certificate in Online Marketing Tools and Data Analysis
Project Management Principles	Project Management Principles certificate in Team Building, Project Structure and Resources Management

SKILLS

- Strong Mathematical and Analytical Skills
- Python Programming Language
- CAD Software (CATIA and Solidworks)
- MS Office
- Effective Teamwork as an Implementer Role
- Matlab
- CFD Ansys Software
- C++ Programming Language

LANGUAGES

Polish	Native Proficiency
English	Full Professional Proficiency
Spanish	Intermediate Proficiency

INTERESTS

- Sports (Gym, Boxing, Judo, Tennis, Skiing)
- Stock Market
- Chess
- Formula 1