

# Dominik Omiotek

**Current Address:** Bahnhofstraße 5, 27729 Axstedt, Germany

**Mobile:** 07495256935 | **E-mail:** domink00@gmail.com | **LinkedIn:** <https://www.linkedin.com/in/dominikomiotek/>

## EDUCATION

### University of Leicester (2023-2024)

### MSc Space Exploration Systems (Merit)

- **Spacecraft Systems Engineering:** Learnt how to produce simple designs for the main sub-systems on a typical spacecraft, including the orbital mechanics, power and thermal sub-systems.
- **Human Spaceflight and Nuclear Systems:** Gained an insight into the requirements of human spaceflight as well as the different types of nuclear power and propulsion technologies used in space.
- **Dynamics and Propulsion:** Explored the fundamental physical and engineering principles appropriate to astronautics, with specific emphasis on rocket propulsion, and the ways it is applied to rocket engines.
- **Major Project:** A six-month group project, including an individual report, focusing on the different aspects of a Case Study: *"A Proposed International Grab & Go Mars Sample Return Mission"*. My work primarily focused on the communications, power systems and structure design. My key contributions included calculating communication budgets, searching for and determining suitable power options and investigating the potential spacecraft structures.

### Keele University (2020-2023)

### BSc (Hons) Astrophysics and Computer Science (2:1)

- **Data Analysis:** Got hands-on experience of applying statistical techniques to analyse scientific data.
- **Life in the Universe:** Examined the physical processes behind the formation and evolution of life.
- **Quantum Mechanics:** Introduced to quantum theory and its application to atomic physics.
- **Mechanics, Gravity and Relativity:** Used calculus-based maths to solve problems in astrophysics.
- **Astrophysics Group Project:** *"Analysis of Eclipsing Binary Stars."* This project involved finding precise mass and radius measurements for stars from a database by using Python.
- **Third Year Double Project:** *"Analysis of Dwarf Galaxies using Data-Driven Methods"*- Integrated and applied theoretical knowledge and problem-solving skills to the chosen technical problem.

## WORK EXPERIENCE

### Assembly Operative | Tesla Engineering | Storrington

Mar 2025 – Sep 2025

- Interpreted and followed engineering drawings to accurately assemble engineering products.
- Utilized small hand tools to perform detailed component assembly to ensure quality of final products.
- Learnt how to solder and braze at a strong level whilst working in a manufacturing environment.

### Assembly Operative | Glenair | Mansfield

Dec 2024

- Assembled aerospace products and parts from drawings, primarily feeding wires into connectors.
- Improved ability to work well under pressure and pay attention to the smallest details.

### Hotel Waiter | Adolphus Group | London

Sep 2023

- Served and interacted with guests in 4- and 5-star hotels after completing certified hospitality training.
- Enhanced communication skills with firsthand experience working as a team.

## KEY SKILLS

- **IT skills:** Proficient in **MS Office** applications, coding in **Python**, modelling in **CAD** and **MATLAB**.
  - **Time management:** Demonstrated ability to meet deadlines consistently.
  - **Teamwork and Independence:** Effective in working both as part of a team and individually, as demonstrated through various university projects, as well as in past jobs.
  - **Numerical skills:** Strong math ability, with past experience taking part in maths competitions in school.
  - **Problem-Solving:** Capable of finding creative solutions while maintaining composure under pressure.
  - **Presentation:** Written presentation through academic reports, and visual presentation through acting.
  - **Languages:** English (Fluent), Polish (Native), German (Intermediate, currently self-learning).
  - **Notable Achievement:** Awarded *Best in School* in the UK Maths Challenge (2015).
  - **Hobbies and Interests:** Football, table tennis, science fiction, geography and statistics.
-