Lyle Desborough

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Personal Profile

A motivated and reliable individual currently pursuing a master's degree in Space Systems Engineering at the University of Southampton, with a first-class BSc (Hons) in Mathematics from the University of Kent. Passionate about space, mathematics, and technology, with a strong interest in applying technical skills to solve real-world challenges. Skilled in applying mathematical principles to the design, analysis, and optimization of space systems, with a solid foundation in data analysis and problem-solving for space-related operations.

Education

Sept 2024- Sept 2025

MSc Space Systems Engineering *University of Southampton*

Advanced Astronautics	**Key Projects:**
Concurrent Space Systems Design	Analysing Theoretical vs Actual Performance of a Hall Effect Thruster
Turbulence	
Introduction to Machine Learning	Full System Design of a 6U CubeSat for Lunar Operations
Spacecraft Instrumentation	
Spacecraft Orbital Mechanics	Analysing and Designing a Fictional Spacecraft: A Feasibility Study Based on Andy Weir's *Project Hail Mary*
Spacecraft Propulsion	
Spacecraft Structural Design	

Sept 2020 – July 2024

BSc (Hons) Mathematics *University of Kent*

Achieved a First-Class Honours Degree.

Developed strong programming skills in Python and MATLAB, as well as proficiency in data modelling using R Studio.

Gained expertise in statistical analysis, numerical methods, and mathematical modelling.

Relevant modules:
- Lagrangian / Hamiltonian Dynamics
- Linear Partial Differential Equations
- Stochastic Processes

Experience

Aug 2022 – Sept 2023

Junior Analyst *Jarmany Ltd*

- Managed the claims process for partners in the UK and Ireland, ensuring efficient and accurate handling of claims.
- Contributed to a two-person team focused on automating the claims validation process, leveraging tools such as Excel, Power BI, SQL, Python, and Power Automate, which significantly increased team efficiency.
- Developed and implemented promotional offers, enhancing partner engagement and performance metrics.
- Identified and resolved discrepancies between partner claim quantities and internal sales reports, improving data integrity.
- Created and presented monthly reports to partners, providing actionable insights to Account Managers.

Interests

- Space
- Reading
- Building Computers
- Gym
- Snowboarding
- Playing Guitar
- Film
- Video Games