

LIAM



JONES

DESIGN

ENGINEER

PROFILE

As a highly motivated and driven second-year undergraduate from the Dyson School of Design Engineering, I bring a critical and analytical approach to my work. I am currently studying an integrated MEng with Imperial College London and have developed strong skills through my diverse coursework. I can design and develop projects to the high standards of a mechanical engineer, while also considering the constraints of business viability and design feasibility.

I am skilled in working under tight time constraints and can produce meticulous work. I am also open to feedback and advice and make a point to effectively integrate it into my skillset. In everything I do, I strive to make a noticeable and beneficial impact through my work and interactions with others.

Relevant Modules

Software Design and Implementation, Mechanics, Engineering Mathematics, Enterprise Management, Project Management, Communication in Design, Human Centred and Human Interaction Design, User Interface and Experience Design, Industrial Design



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Education

Design Engineering MEng

Dyson School of Design Engineering | Imperial College London

First Year – **First 1.1**

Second Year – **In Progress**

Product Design | Mathematics | Physics

The de Ferrers Academy | Technical College | A-Level

A* - Mathematics

A* - Design & Technology

A - Physics

GCSE's | 13 Passed

Three 9's (A⁺ at GCSE)

Grade 7+ Full GCSEs English Baccalaureate (7 is equivalent to A at GCSE)

Skills

Engineering | Mechanical Engineering with technical skills

Manufacturing & Materials Knowledge

Additive Manufacturing

Business and Manufacturing Insights

[Project>>](#)

[Project>>](#)

[Project>>](#)

Design | Design Thinking Mindset & Iterative Project

Project Management

Layout, Web, App & User Interface designer

Collaboration

Illustration to Rapid prototyping through CAD

Innovative and creative Ideation

[Project>>](#)

[Project>>](#)

[Project>>](#)

[Project>>](#)

[Project>>](#)

Software | Ability to adapt and transition between any common software

Adobe Suite – XD | InDesign | Illustrator | Fresco

Office 365

Google Suite

CAD – Fusion 360 | Solidworks (CAD | FEA)

Code - JavaScript/TypeScript | Python | Dart | Swift | Arduino (c)

EXPERIENCE

Undergraduate Research Opportunities Programme (Click project)

Dyson School of Design Engineering | July 2022 – October 2022

I was approached to redesign & part implement the grading and student content platform for the Dyson School of Design Engineering as an Imperial College Research Opportunity. These opportunities are very rare and **extremely rare** for first-year students.

- **Independently** project managed & designed a database to efficiently store data using SQL database and MySQL
- Pitched an effective solution for efficient read and writes to the platform.
- Researched and interviewed students.
- Designed and Coded an ergonomic and intuitive full-stack student-faced app using the database. Dramatically improving student access to data and better visualising their grades previously inaccessible to students. With responsive iOS, android and webapp applications, with realtime updating data.

ICLoop Integration Engineer (Click project)

Imperial College Hyperloop | Oct 2021 – July 2022

I headed the integration of 2 major subsystems of 30 aerodynamic & electrical engineers.

- Team working and project management subsystems, including managing and designing the main hyperloop file.
- Organisation and improving team & group **dynamics & communication**
- Substituting for where people were absent; Manufacturing & Leadership
- Hosting and attending interactive meetings.

Molson Coors Line Operator

Molson Coors | July 2021 – Oct 2022

I operated and supervised machinery for the distribution and supply of Molson Coors Brands of Kegs and Cans.

- Handle responsibilities with large cost risks, overseeing portions of machinery responsible for the majority of the UK's beverages.
- Gained experience and insights into large business distributions and logistics.
- I Saved Molson Coors **£000,000's** in downtime for an issue that had plagued the company for over 5 years, in my first 2 months which resulted in a promotion and was offered an apprentice and graduate scheme offer, which I had to turned down.

Achievements

Dyson School Design Engineering DESIRE Award (Project) (Evidence)

Design Engineering Selected Innovation REcognition | July 2022

This is the **most prestigious** award at Dyson Design Engineering, achieved through developing an the best outcome & highest achieving innovative project.

Makeathon Winner 2022 (Project) (Evidence)

Imperial College Makeathon | July 2022

The winner of this project had to outperform over **100+ other contestants** in just a weekend to design a conceptualise the most innovative and impactful project/product.

European Space Agency CANSAT Award (Project)

ESA CANSAT | June 2020

Competing against highly funded private schools with groups of 7+. Myself and my friend created a functioning remote satellite that harvests crop healthiness from images to predict the amount of fertiliser needed, before accessible machine learning was available.

- Also awarded **runners-up** in the resubmission for TDI Challenge