

Lucia Dragonetti

24 Hadrian Avenue, Newcastle upon Tyne, NE1 6Q6
04764676590, luciadragonetti55@gmail.com

Mechanical Engineering graduate with industrial experience, seeking a graduate role in automotive manufacturing, with the aim of becoming a chartered engineer.

Education

2020 – present MEng (Hons), Mechanical Engineering, Newcastle University (expected 2:1)

Relevant modules include: Design and Manufacturing, Applications of Thermofluid Dynamics, Vehicle Drives and Dynamics, Energy Sources and Storage, Electrical Engineering

- Designed, built and tested a wind turbine, using CAD software during the design stage. Achieved a grade of 82% for the project.
- Worked as part of a team of five on an industry project to design a winch. Effectively contributed ideas in online meetings, undertook research and calculations and played a key role in designing the final specification. Delivered the final design in a Zoom presentation to a panel of four industry representatives.
- Produced designs and plans for fully functional machines and assemblies that could be manufactured economically, showing an understanding of costing. Ensured the solution was compliant with legal requirements and standards.
- Operated CNC machine tools in the manufacturing lab and conducted materials and degradation testing.
- Developed mechatronics and electronics skills for programming robots and automated devices through weekly lab sessions.

2013 – 2020 Excel Academy, Newcastle

A Levels: Maths (A) Physics (A) Chemistry (A)

10 GCSEs: Grades 9–7, including English literature (8), English language (8) and maths (9)

Related Experience

July 2023 – Jun 2024 Mechanical Engineering Placement, BMR Engineering, Edinburgh

- Delivered projects as part of a multi skilled engineering team, designing oilfield products, services and digital solutions. Worked to deadlines to meet client expectations within budget.
- Created detailed drawings, schematics, concept designs and design calculations, using Pro-Engineer 3D solid Modeler and Team Center for drawing management.
- Presented design briefings and project plans to clients in online meetings, explaining recommendations and negotiating on price.
- Designed test plans and executed tests to contribute to failure mode and effect analysis, complying with company policies and procedures.
- Provided technical support to operations projects, requiring frequent travel and field work.

Jun 2022 – Aug 2022 Manufacturing Engineering Internship, LinkGen, Gateshead

- Worked with diesel engine and turbo charger technologies, supporting the engineering team with manufacturing tasks and projects.
 - Identified ways to modify and improve current processes and procedures and made recommendations to senior colleagues.
 - Assisted with the implementation of new processes, systems and technology, providing training to staff and creating supporting documents and resources. Ensured all safety regulations were adhered to.
 - Resolved technical issues identified by external customers or through analysis of trends in data.
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Additional Experience

Sep 2021 – Jun 2022 Store Associate, Holland and Matthews, Newcastle upon Tyne

- Advised customers on health and lifestyle products, providing friendly and approachable customer service, while maximising sales to meet targets.
- Operated a cash register, handling transactions accurately and efficiently.
- Trained new members of staff on stock management as part of their induction.

Jan 2020 – Jun 2020 Office Administrator, Five Star Recruitment, Newcastle upon Tyne

- Handled customer queries over the phone and by email, providing a friendly and professional first point of contact.
 - Updated and maintained spreadsheets and databases to comply with audit standards, requiring strong attention to detail.
 - Managed the diary of senior colleagues and booked travel arrangements.
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Achievements

March 2021 Virtual Experience Programme Participant, General Electric

- Participated in the open access GE Virtual Experience Program with Forage, which took 4 hours of independent work.
 - Analysed the effects of Covid-19 on demand for medical equipment such as ventilators, planning how to effectively ramp up production to meet the surge in demand.
 - Completed a task related to gas power plants and renewable energy. Demonstrated understanding of sustainable energy solutions and how to supply a reliable mix of power to the grid.
 - Reviewed an aviation systems design for an automated aircraft landing to meet customer requirements and optimise performance.
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Additional Skills

- IT - proficient in Microsoft Office, including Outlook, Excel, PowerPoint, Word, Access and Matlab.
- Full clean driving licence.
- Languages - conversational French, basic Spanish.