

# Dan Christopher

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An MSc Advanced Manufacturing Technology student with knowledge and experience in design tools, manufacturing processes and systems. Technical skills in simulation and modelling application software; research skills used to investigate industrial problems; and design skills applied through assessed projects. Currently seeking a graduate engineering role related to product manufacturing with the opportunity to further enhance operational and management skills and apply ideas to real-life industry projects.

## Education

### University of Portsmouth

Sept 2023 – Sept 2024

#### MSc Advanced Manufacturing Technology (Merit)

- Course accredited by the Institution of Mechanical Engineers.
- Units covered include Advanced Materials; Integrated Manufacturing Systems; and Virtual Systems Design and Simulation for Production.
- Demonstrated excellent CAD skills through 2D surface modelling and 3D solid modelling when completing both individual and group projects.
- Major project titled “Development of a non-return device for medical traction systems”, which will involve the design, manufacture and testing of a linear non-return system. Will be completed in collaboration with Finsbury Ltd.
- Preparing technical dissertation “Environmental design requirements for aerospace technology”, which will involve researching and developing design concepts and practices in aerospace.

### University of Portsmouth

Sept 2018 – July 2023

#### BEng (Hons) Design and Materials (Class 2:1)

- Final year dissertation “Improved design process for exhaust gas heat exchangers” involved evaluation and problem solving of a fork truck diesel protection system for hazardous areas, in collaboration with Pyroban Ltd.
- Integrated Engineering & Business Project. Contributed to forming a consultancy company, develop and presenting the design for a lighter than air machine. Developed teamwork, research of standards and design of the airship on ProE.
- Course projects: Redesigning the fifth wheel, problem solving to allow close cupping. 3D modelling of electrical assembly in ProE. Development of scales and a self-powered baked bean machine. Conducting polymers research paper.
- Competent user of: AutoCAD, Pro/Engineer, Microsoft Word, PowerPoint, internet and email systems.
- Included a year in industry at Pyroban Ltd, gaining a Diploma in Industrial Studies.

## Relevant Work Experience

### Pyroban Ltd, Shoreham-by-Sea (Leaders in Hazard Protection)

Aug 2020 – Aug 2021

#### Tester, Placement Year

- Based in the Operations Department. Managed the testing of fork trucks and diesel protection systems for hazardous areas - conforming to current legislation at all times.
- Evaluated the effectiveness of protection systems to potential clients and visitors.
- Tested new diesel protection devices for fork trucks and offshore applications to satisfy legislation and external auditors, incorporating good time management and team work skills, ensuring testing achieved between production, fitting and shipping.
- Developed a ‘Research Testing System’ to create more realistic tests of worst-case scenarios and temperature testing of current, new and trial protection systems.

- Involved in the development and project management of the test facility into an independent test laboratory in accordance with new upcoming legislation.
- Produced new laboratory test procedures, methods and demonstrations to meet competence standard audits by Sira (independent auditing body).
- Further projects undertaken: implementation of preventative maintenance schema, design and development of a hydraulic press, asset management, performance testing of a telehandler, and development of temperature testing.
- Trained in Pyroban protection safety systems (familiarisation course), Kaizen training, and occupational Health & Safety.

**Aerogen, Alton (Manufacturer of Gas Burners)**

**June - Aug 2019**

**Assembler (Summer Work Experience)**

- Expanded experience and knowledge in Fitting, Burner, Electrical, and Testing departments.
- Conducted manufacturing of burners, assembling gas control systems – both mechanical and electrical, testing burner systems.
- Exposed to a professional working environment; developing communication and organisational skills to manage workload.

**Other Work Experience**

**University of Portsmouth Students' Union**

**Nov 2022 – July 2024**

**Part-time Barman**

- Demonstrated ability to work effectively under pressure when dealing with high volumes of orders and customers.
- Collaborated in the organisation and delivery of social events for students, working closely with the Bar Manager to provide a high level of customer service and ensure customer satisfaction.

**Watercress Line (Preserved Steam Railway)**

**May 2019 – June 2020**

**Part-time Kitchen Porter / Assistant**

- Starting as a Kitchen Porter, progressing to Assistant to the Catering Manager. Managed buffet, supplying passing trains, preparing functions and serving customers.
- Collaborated with colleagues to ensure an excellent standard of service was provided at all times.

**Additional information**

- Level 3 BTEC National Diploma in Engineering (Alton College, September 2016 – July 2018).
- 10 GCSEs A-C, including English, Maths and Science (Perins Community School, September 2011 – July 2016).
- Fluent in English, Italian and French.
- Experience of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™) and other common applications

**Interests**

- Member of the Shoreham-by-Sea Mountaineering Club, held two positions on the committee; including Treasurer and Equipment Officer.
- Enjoy both bouldering and traditional climbing, building up to lead, enhancing communication and teamwork when group climbing.
- Interested in artistic activities such as drawing, painting and model making.

**References available on request**