

## Dan Christopher

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

### Education

#### **University of Portsmouth**

**Sept 2019 – Sept 2020**

#### **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 entitled “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.
- Currently carrying out work on a technical dissertation entitled “Environmental design requirements for aerospace technology”, which will involve researching and developing design concepts and practices in aerospace.

#### **University of Portsmouth**

**Sept 2015 – July 2019**

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

- Final year dissertation entitled “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. Worked in a group to form a consultancy company, and develop and present the design for a lighter than air machine. Involved 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 2017 – Aug 2018**

#### **Tester**

- Based in the Operations Department. Responsible for testing fork trucks and diesel protection systems for hazardous areas - ensuring they conform to current legislation at all times.
- Evaluated the effectiveness of protection systems to potential clients and visitors.
- Tested new variations of diesel protection devices for fork trucks and offshore applications to satisfy legislation and external auditors. This involved incorporating good time management and team work skills to ensure testing was 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: the implementation of preventative maintenance schema, design and development of a hydraulic press, asset management, performance testing of a telehandler, and development of temperature testing.
- Successfully completed training in: Pyroban protection safety systems (familiarisation course), Kaizen training, and occupational Health & Safety.

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

**June 2016 – Aug 2016  
(Summer Work Experience)**

- Gained experience and experience in the Fitting, Burner, Electrical and Testing departments.
- Duties involved participating in the manufacturing of burners, assembling gas control systems – both mechanical and electrical – as well as testing several burner systems.
- Exposed to a professional working involved; developing communication and organisational skills to effectively manage workload.

**Other Work Experience**

**University of Portsmouth Students' Union  
Part-time Barman**

**Nov 2015 – July 2019**

- During term-time periods undertook various duties working within a close-knit team.
- Demonstrated ability to work effectively under pressure when dealing with high volumes of orders and customers.
- Assisted 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)  
Part-time Kitchen Porter / Assistant**

**May 2014 – June 2015**

- Started as a Kitchen Porter – improved own status within the catering section to become an Assistant to the Catering Manager. This involved running the buffet, supplying passing trains, preparing functions and serving customers.
- Collaborated effectively 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 2014 – July 2015).
- 10 GCSEs A-C, including English, Maths and Science (Perins Community School, September 2009 – July 2014).
- Fluent in English, Italian and French.
- Experience of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™) and other common applications (browsers etc).

**Interests**

- Member of the Shoreham-by-Sea Mountaineering Club, held two positions on the committee; including Treasurer and Equipment Officer.
- Enjoy both bouldering, as well as traditional climbing and am building up to lead. Through this hobby have enhanced skills, such as communication and teamwork when climbing in a group.
- Interested in artistic activities, such as drawing and painting. Mainly enjoy model making and building and converting models from kits or raw materials, before painting them for display.

**References available on request**