

# isaac anderson

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## EDUCATION

University of Bath  
2012 –2017

*MEng (Hons) Mechanical Engineering with Advanced Design and Innovation*

**Degree Classification: 2:1**

*Relevant modules include:*

- Mathematics 1 & 2 (75%)
- Modelling Techniques 2 (76%)
- Innovation and Advanced Design (72%)
- Costing for Engineering Design and Manufacture (66%)
- Product Design and Development (66%)
- Business Processes (63%)

City and Islington Sixth Form  
College  
2010 –2012

*A2 Levels*

- Mathematics (A\*)
- Further Mathematics (A)
- Physics (B)

Hackney Free and Parochial  
Secondary School  
2005 –2010

*GCSEs*

- 8 (2A\*, 5A, 1B) including Maths (A\*), Science (A\*), English Language (A) and English Literature (A).

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## EXPERIENCE

Academic Skills Centre,  
University of Bath  
June 2017 – Sep 2017

*Pre-sessional Assistant*

- Co-ordinated with several teams simultaneously to help effectively administer pre-sessional courses for international students at Bath.
- Facilitated and participated in social and cultural activities organised for the students, while encouraging them to practice their spoken English.
- Dealt with a wide variety of enquiries from numerous stakeholders (both internally and externally) with different comprehension levels, as well as supporting students who were homesick and/or distressed.

Institut Polytechnique de  
Grenoble  
Feb 2016 – June 2016

*External Integrated Project*

- Worked alongside a team including postgraduates and researchers on a 3D printer that utilised EBM (electron beam manufacturing) techniques to fuse powdered metallic alloys together.
- Tasked with reducing the initial amount of powdered alloy used in the process by 80%, hence lowering costs on both the initial outlay of materials and storage.
- Proposed final designs that accomplished reducing the initial amount of powdered alloy by 95%, as well as decreasing the set-up time of the machine by over 80%.

Griffon Hoverwork  
July 2014 – July 2015

*Detail Designer*

- Liaised closely with engineers, architects, procurement and production as part of the Design team to manufacture the 12000TD, a passenger craft serving Portsmouth and the Isle of Wight.
- Developed system level designs into detailed solutions, before producing complex 3D models, production level drawings and design instructions.
- Provided technical advice to the production team, as well as collaborating with compliance to ensure externally administered marine

standards were met.

- Designed numerous parts which made it onto the finished crafts, as well as increasing understanding of how a business is run effectively by working alongside and within different departments within the company.
- Streamlined the ECR (Engineering Change Request) process, making it simpler, quicker and easier for one person to manage.

#### Room Portal

June 2013 – Sep 2013

#### Research and Development Intern

- Established, developed and executed SEO and marketing strategies, all with the purpose of increasing web traffic, as well as writing related content to advise users.
- Engaged with UK SMEs within the property sector, as well as providing customer service, feedback on the usability of the website and talking with potential tenants and landlords online.
- Improved the presence of the company on *Twitter* by attracting followers such as *Prime Location*, *SpareRoom* and the founder of *Property Tribes*, increasing followers to over four figures while working independently.

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## POSITIONS OF RESPONSIBILITY

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#### LGBT+ BME Representative

- Identified a lack of BME representation and raised this issue with the committee, which led to the BME Representative role being created.
- Raised BME and general concerns to the committee, and using previous experience to empathise with and solve any issues members raised.
- Confidentially supported various BME students by listening to their problems, before offering solutions and advice tailored to their situation.

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## ADDITIONAL SKILLS AND AWARDS

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#### Computer Literacy

- Web Development (*HTML(5)*, *CSS(3)*, *Responsive Web Design*, *Bootstrap*, *UX*). Currently learning *JavaScript* and *jQuery*.
- 2D/3D CAD (*SolidWorks*, *SolidEdge*, *DraftSight* & *AutoCAD*).
- Microsoft Office (*Word*, *Excel*, *PowerPoint* and *Outlook*).

#### Experienced Driver

- Holder of a full, clean licence since 2014, and an experienced driver in the UK, Europe and Africa.

#### Sedgwick Medal 2010

- The highest award of Hackney Free since 1820, this award is only given to seven male students each year for outstanding commitment to studies.

#### Senior Maths Challenge 2012 (Bronze Award)

- This was also the second highest mark in the college for 2012.

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## ACTIVITIES AND INTERESTS

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#### Tennis and Squash

- Largely self-taught tennis player since 2012 and member of the University Tennis Society. Currently learning to play squash.

#### Volunteering

- Events include working in a team as a Pride Maker in 2015, helping at a fete for the Huddlestone Centre and talking to a variety of potential students at various open days at the University of Bath.

#### Fitness and Health

- Prepared for and participated in the *Bath Half Marathon 2015*, cycled in the *New Forest 100 2016*, as well as training in the gym regularly.

#### Skiing

- Took lessons while in Grenoble, and ended up joining the *École de Glisse* to develop further skills and meet new people while in France.