

JO SMITH

PERSONAL DETAILS

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Address: 123 High Street
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EDUCATION

University of Edinburgh (2010-2015)

MEng Civil Engineering with Honours (Predicted First Class Honours, 3rd and 4th Year average: 71%)

Awards and Accolades: William Dudgeon Prize awarded to top 4 students in year 2.
President, Civil Engineering Society 2014/15

Study of a professionally accredited Civil Engineering degree which focussed on gaining a detailed understanding of core engineering principles in both a theoretical context and in application to design. Honours year specialisation benefitted from the University's renowned research interest of Fire Safety Engineering with the undertaking of an MEng Thesis Project based on the "*Thermal Performance of Restricted Intumescent Coatings*".

Examples of Projects Undertaken:

- Intensive design concerned with the design of foundations, piling works, and highway junctions. (2014)
- Multi-disciplinary design course concerned with the design of a Sustainable House to a client's brief. (2013)
- A 1-week long surveying exercise in which an area was surveyed using industry standard methods. (2012)

Hawick High School (2004-2010)

Gained Advanced Higher (AAA) and Higher (AAAAB) and was awarded numerous merits for academic excellence.

RELEVANT ENGINEERING EXPERIENCE

Professional Involvement: Student member of the ICE, IStructE and CIHT with over 200 hours volunteering experience contributing towards Initial Professional Development.

Institution of Civil Engineers (August 2011 – Present)

Head of Communications (Volunteer), Edinburgh Area Branch Graduates and Students Committee

Involved in the conceptualisation and organisation of ICE events in the Edinburgh region and primarily responsible for ensuring these events are advertised effectively through the production of advertising templates and schedules, regular liaison with ICE Scotland and management of the Committee's social media outlets.

Industrial Experience: Over 1 years' accumulated experience in local authority, consultancy and the maintenance sector gained through various work placements.

Mott MacDonald Ltd. (June – August 2014)

Summer Intern, Transportation Team (Rail and Bridges), Edinburgh

Primarily involved with various aspects of the Edinburgh-Glasgow Improvement Programme (EGIP) where duties included structural calculations, document preparation and control for tender purposes and the preliminary design of Disability Discrimination Act 1995 compliant access ramps for train stations.

BEAR Scotland Ltd. (July 2013 – June 2014)

Part-time (Semester)/Full-time (Summer Vacation) Trainee Engineer, Bilston Glen, Edinburgh

Operations Team: Personally responsible for the amendment of section data for trunk roads in the South-East of Scotland which involved an in-depth knowledge of the network and regular contact with the project client.

Planned Maintenance Team: Interpreted accident report data to form preliminary investigations into the skid resistance of the road surface and subsequently conducted on-site tests to determine the grip level of the highway.

Historic Scotland (June 2013)

Technical Conservation Summer School Student, Stirling

Scholarship student on an intensive week long course of lectures, practical workshops and site visits which taught the principles behind the methods and materials used in the conservation of historical structures.

Scottish Borders Council (July-August 2012)

Work Shadowing, Environment and Infrastructure (Flood Protection), Newtown St Boswells

Shadowing of the Hawick Flood Protection Scheme design team at a private stakeholders meeting and public exhibition to understanding the importance of public awareness and local knowledge in engineering projects and subsequent experience of a water course inspection for tributaries to the Gala Water.

PREVIOUS EMPLOYMENT

House of Cheviot Ltd. (Vacation Work 2011, 2012 & 2013)

Knitwear Examiner/Dispatcher and Sales Advisor

Examination of high-quality knitwear for faults and preparation of orders for dispatch to clients worldwide.

Additionally, acted in the role of an advisor and salesman for the company assisting with their business venture to develop a range of kilt hose aimed at the pipe band market.

PERSONAL SKILLS AND QUALITIES

Teamwork:

- Extensively developed through several University design projects including instances where conflicting interests and ideas had to be resolved in order to achieve success.
- Working and liaising with other engineers to organise events for the ICE and Civil Engineering Society.
- Developing and playing an influential part of an integrated corps of pipe band drummers which has had great success and has won several prizes at local and national level.

Attention to Detail

- The careful review and amendment of transport network reference data which required the study and interpretation of records relating to over 550 miles highway.
- Required for, and developed through, the examination of high quality knitwear during summer work.
- Achieving high marks for presentation, completeness and sketching ability for university coursework.

Organisation:

- Successfully formulating and implementing an advertising and flyer campaign across all Edinburgh- based higher and further education institutes for the ICE.
- Organising a successful Burns Supper for 200 people and personally delivering the “Address to the Haggis”.

Ability to work under pressure:

- Successfully serving customers and dealing with large stock orders and payments whilst operating a knitwear trade stall at the World Pipe Band Championships.

Loyalty:

- Completing 9 years’ service with my hometown pipe band before returning to aid them when they were upgraded to a higher league which subsequently involves travelling a 50 mile round trip to practices.
- Rising through the ranks of a local badminton club through 6 years committed service to a minor teaching position.

Presentation & public speaking:

- Addressed a Sustainability Conference and Thesis Academic Poster Presentation at the University of Edinburgh.
- Delivering lectures to a local Archaeological Society based on research into family history.
- Formulating and presenting workshop sessions through involvement in the Holocaust Education Trust.

Creative thinking:

- Critically developed through research and design projects; for instance, configuring an arrangement of laboratory apparatus for final year research experiments and the conception of a design for a Sustainable Family Home.
- Expressed through various musical and visual compositions for a “trash drumming” project and many years of experience playing in pipe bands and writing drum scores.

Leadership:

- Election to the position of University of Edinburgh Civil Engineering Society President and successfully chairing committee meetings which decide the future direction of the society.
- Being chosen as the only male representative for my school on the Holocaust Education Trust’s Lessons from Auschwitz programme.

PERSONAL INTERESTS:

A large proportion of my time outside study is devoted to my involvement in pipe bands and learning the art of pipe band drumming. Throughout my drumming career, my interests have been primarily based around competing but I have also been involved in teaching and passing on knowledge to others.

I also have a very keen interest in history and regularly seek to develop my own knowledge of the subject through reading and visiting historical sites and museums.

REFERENCES:

References are available if required.