**GAVIN DEAN TREVENA**

MEng Architecture

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# Personal Profile

2nd Year MEng Architecture Student with a passion and focus in my chosen area of study. Future ambitions are to associate with a company able to provide valuable insight into infrastructure developments. Aspiration is to procure the ultimate status an engineer can obtain through attaining Chartership. I believe a step towards achieving these ambitions would be obtained by securing a placement.

# Education

2018 - 2022: MEng Architecture, ​**University of Leeds,**​ Leeds, Yorkshire First Year Grade: 1st (70%) (GPA: 4.0) Year 1 Modules and results:

* Architecture and Environment - 67.
* Engineering Surveying and Construction Technology - 72.
* Structural Design and Analysis - 54.
* Properties of Materials: Water, Soil, Steel and Timber - 81.
* Engineering Mathematics and Modelling 1 - 76.
* Integrated Design project 1 (Including Design Studio 1) - 67.

2011 - 2018: **Park View Sixth Form,** ​County Durham

 ● A-Levels: Mathematics – A, Fine Art – A, Biology A\*.

GCSEs: 10 GCSEs grades A\*- C including Maths and English.

# Engineering Project

## Timber Truss Design

* Coordinated a timber truss bridge design with minimum cost, resisting a specify load applied.
* Integrated fundamental Knowledge of Structural Design and Properties of Timber were applied.
* Derived calculations needed in calculating forces within members and attaining optimal performance in design.
* Managed within a group of 8 students to design and construct a truss.

## Building Study

* Evaluated structural design and composed architectural sketches of the ‘Michael Sadler’ University of Leeds building.
* Established an A1 board presenting all information and sketches.
* Produced with 3 other students, involving close management and constant communication so all tasks were completed.

## Surveying Field Trip

* Surveyed a field on a trip lasting 5 days assessing practical knowledge of instruments and fundamental understanding of surveying technique.
* Performed as a team leader to finish a site plan on time, gaining invaluable insight into managing and completing surveying exercises to be used before and during construction.

# Work History

September 2019 - Present: **RowUK,** ​Leeds, Yorkshire

*Rowing Coach*

* Educator and technique guide for a youth development programme in a regional area of Leeds, giving young people opportunities to experience a new sport for 6 hours on a weekend.
* Motivating and emotionally supporting students of a class size of 4-8 to aid performance.
* Prepared different and progressive coaching lessons to younger rowers to advance technique weekly.

 June 2019 - Present: **Rowing Committee,** ​Leeds, Yorkshire

*Fundraising Secretary*

* Responding to companies' emails, messages, and phone calls.
* Organising meetings for sponsorships and fundraising events for the club.
* Informing committee members for collective decision making.

June 2019 - August 2019: **The Fresh Air Fund,** ​Fishkill, New York

*Specialist Instructor and General Counsellor*

* Developed an exploratory sports curriculum consisting of 10 classes for inner-city youth from New York.
* Led and taught three to five hours a day with classes between 12 to 24 students and tailored each lesson to age group.
* Created and led workshops on gender and sexuality to a class size of 40.
* Ensured physical and emotional well-being of campers 24/7 whilst not teaching.

June 2016 - July 2016: **World Challenge**​, Madagascar

*Volunteer*

* Organised and raised £4000 over 2 years for an expedition.
* Executed classroom construction in a small village for one week.
* Utilised by above 300 local people used in education projects for future youth, to promote learning and community development in a community.
* Communication, team working, critical analysis, problem-solving and self-management are all skills I improved.

# Skills

* **Communication –** ​Presented ideas and designs to lecturers and students. I ensure my team is reaching deadlines by setting up routine meetings.​As an international sports specialist, a lot of my time was spent working with people from different nationalities and backgrounds, by adapting to different personalities my communication skills were improved.
* **Team Working –** ​Facilitated in a high number of engineering projects within first year, strengthening my ability to work as a team to progress a project.

**Time Management –** ​Balancing my time with my degree, rowing, being fundraising secretary and coaching the sport is essential to my weekly schedule, therefore I plan my time effectively.

* **Problem Solving –** ​Demonstrated​as a sports specialist in NYC. Unforeseen weather conditions so quickly changing lessons planned to keep the kids educated and entertained (dealing with the unpredictability of a working environment).
* **Creativity –** ​Reflected in my Fine Art A-Level, where an ability to create and develop ideas was required. First-year projects including creating new structures such as the Timber Truss design elevate my creative ability.

**Working under Pressure -** ​Remaining calm as a general counsellor in an understaffed environment to ensure a consistently high standard of care.

* **Technical**​ - CAD Software, Autodesk, Revit, MATLAB and French (Basic).

# Interests & Achievements

* February 2019 - Present: **University of Leeds,** ​Leeds, Yorkshire. Health and Safety Awareness Certificate.
* October 2018 - Present: **Head of School First Year Engineering Scholarship.**
* October 2018 - Present:​ **Awarded Rowing Trophies for University.**
* June 2017 - Present: **Awarded “Outstanding Performance” in Fine Art at A-Level.**
* Student Member of IET, ICE and IStrutE.
* Active Member of Leeds University CivSoc Society (Civil Engineering Society).
* Rowing Athlete for University of Leeds Boat Club.

# References

**Academic Reference,** ​Doctor Andrew Sleigh, Leeds Faculty of Engineering, P.A.Sleigh@leeds.ac.uk, Tel: 0113 343 2398.