**Ema Shek**

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**Personal Profile**

An enthusiastic and solution-focused University of Hull final-year Biomedical Engineering student, with demonstrable problem-solving, team leader and teamworking skills gained through a series of activities at Hull University and part-time roles. Keen to gain a Graduate Medical Engineer role with the ambition to learn, develop and progress to a senior position in the future.

**Education & Qualifications**

**University of Hull Sept 2019 – Present  
BEng Biomedical Engineering (1st Expected. Grade: 90)**

**Key Modules:** Materials & Manufacture, Engineering Global Challenge 2, Stress Analysis and Applications of Finite Element Analysis, Artificial Organs and Micro/Nanotechnology for biomedical applications, Biomaterials and Orthopaedic Devices.

**Dissertation:** Investigating how negative pressure wound therapy affects the skin focusing on one or more parameters - Smith and Nephew.

* Applied engineering knowledge on creating a mechanism for the human body with an understanding of ethical and safety measurements.
* Produced various reports using analytical skills to interrogate data sets in Excel, MATLAB, and Arduino and draw meaningful conclusions to influence engineering design selection and increment design efficiency.
* Utilised listening, planning, and organisational skills to effectively prioritise tasks, divide workloads and create deadlines to complete work as scheduled.
* Learned to efficiently use Arduino and create circuits to obtain specific parameters such as moisture movement using programming, circuit drawing, and Arduino troubleshooting skills.

**King Edward VII Sixth form Sept 2017 – June 2019**

A Levels in Mathematics (A), Physics (C), Italian (A\*), and Photography (C).

**Liceo Euclide, Scientific High School, Italy Sept 2014 – June 2017**

11 GCSEs (A\* – B) including Mathematics, English, and Triple Science

**Relevant Work Experience**

**Engineering Tutor Sept 2019 – Present**

* Organised 1:1 and group weekly tutoring sessions in Mathematics, Stress Analysis, and other relevant engineering modules for undergraduate engineering students at Hull University.
* Developed study and action plans for a variety of engineering students at a University level to ensure they would be able to independently work on their own in future modules.
* Taught report writing and Harvard referencing.
* Taught study techniques.

**Professional Membership & Additional Engineering Experience**

* Student member of the Institute of Physics and Engineering in Medicine
* Student member of the Institute of Mechanical Engineers
* Student member of the Institute of Engineering and Technology
* Member of Hull University Mathematics Society
* Member of Hull University Engineering Society

**FabLab - (University Rapid Prototyping Facility) Sept 2020 – Present**

* Trained undergraduate and postgraduate students on how to use 3D printing machines and evaluate their knowledge through quizzes. Completed further research in CAD and CURA to answer more in-depth questions.
* Took a lead role in building a student team to support the facility and created lectures to be implemented in the module, established machine training based on interests, and helped to build a 3D printing student community.
* Participated in weekly maintenance of the 3D printing machines and taught other students how to fix them.
* Tutored prospective Fablab members on how to tutor undergrad and postgrad students interested in using the Fablab facility.

**President of the Engineering society Sept 2021 – Sept 2022**

* Lead group meetings between students of different years and engineering backgrounds.
* Took initiative and developed a plan to engage more students and organise more activities and implemented plans.
* Provided counselling and guidance.

**Organiser of the Hull Engineering ball Sept 2022—Present**

* Organised the first Hull University Engineering ball with a small team of engineering students. Independently completed tasks such as budgeting and marketing.

**Central and Engineering Department student ambassador**  **Sept 2020 – Present**

* Introduced the Engineering Department with a focus on the University Fablab laboratory and the advantages of a career in engineering.
* Explained how to smoothly transition from college/sixth form to university to both prospective students and parents.

**Other Work Experience**

**Tutor Sept 2019 - Present**

* Developed professionalism and verbal communication skills through teaching A-level Math and Physics and GCSE stem subjects.
* Improved interpersonal skills by teaching younger students.

**Sense, Rotherham June 2018 – July 2019**

**Volunteer**

* Organised stock for the charity, helped customers to pick a specific product based on their needs and worked as a cashier resulting in excellent teamwork and a positive working atmosphere.
* Nominated for the best employer of the month consecutively for two months.

**Pharmacy Locci scale Sept 2016 – Sept 2017**

**Student placement**

* Won award for best student employer of the semester.
* Gained communication and precision skills to deliver medicines to the right customer.
* Organised stock and made copies of daily stock in Excel.
* Worked confidently in a team as a trainee and finished tasks at the assigned deadline.
* Communication with different age groups.

**Familiar software**

* MATLAB.
* Simulink.
* Solid-works (CAD).
* Arduino.
* Cura.
* Ansys.

**Languages**

* English.
* Italian.
* Bengali.

**References Available Upon Request**