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OLIVER S.M. FAIRFOOT

MEng student at the University of Edinburgh interested in Design Engineering, with industry experience in upper limb prosthetics.

Education and Qualifications

The University of Edinburgh

Master of Engineering - MEng, Mechanical Engineering

September 2021 - Present

Degree programme that involves substantial use of CAD, FEA software and Python. MEng project on structural analysis for design optimisation of a prosthetic hand. Currently in the Top 3% of the year with an average of 76%.

Engineering and Medical Work Experience

Metacarpal Ltd.

Junior Engineer

January 2025 - Present

- Design Engineering, Inventory Management, Software Development, Working with medical regulations (ISO 13485, ISO 22523, FDA 21 CFR 820)

Design optimisation as part of an MEng industry-led project. Taken charge of researching and developing the optimal design of the belts that drive the product. Taken charge of managing inventory through a self-written, accessible software.

Test Engineering Intern

August 2024 – January 2025

- Testing products, designing test operations, and data analysis

Designing tests for the integral parts of the world's first fully mechanical articulated prosthetic hand and ensuring the product can perform everyday tasks. Designing methods of constructing sub-assemblies with repeatability and consistency. Balanced working part-time alongside my studies.

Rebel Bionics

Shadowing Senior Design Engineer

July 2024 – August 2024

- Working with a Design Engineer, Problem-solving

Worked alongside Ted Varley at Rebel Bionics, where I got first-hand experience and an insight into myoelectric hands. Aided in solving issues that arose during design and improved upon my CAD skills, working with surface modelling.

The University of Edinburgh

Computer-Aided Design Engineer

Sept 2023 – Feb 2024

- Working with a researcher, Large Language Model

Working with a PhD researcher to develop an artificial intelligence that can be implemented to work out the degree of change applied to nominal parts. Applying precise changes and accurately logging the changes so as to impact the deep learning models' performance positively.

Edinburgh University Formula Student (EUFS)

Aerodynamics and Ergonomics Engineer

Sept 2021 – Sept 2022

- Working with a team, CAD modelling, CFD simulations

Worked as part of a team to design and implement a Front Wing, Rear Wing, Undertray, Sidepods and a Nosecone on the Formula Student vehicle. Got hands-on experience working and testing composites.

Brighton and Sussex Medical School [BSMS]

Virtual Work Experience

Nov – Dec 2020

I undertook a virtual work experience at BSMS, which allowed me to gain an understanding of how the NHS operates and the various roles available upon completion of Medical School.

Volunteering

Riding for the Disabled Association

Volunteer

2017 – present

- Working with a team, working with children, and Large Charity events

Worked as part of a team to ensure the children riding the horse were always safe, ensured the horse remained in control and offered help with mounting and dismounting. I also sang the occasional song with the riders.