

Hasha Dar

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Chigwell, Essex, IG7 5PF

Education

University College London

MEng Mechanical Engineering

September 2019 – Present

Key modules: Manufacturing & Design,
Control & Instrumentation, Thermodynamics and Fluid Dynamics II,
Engineering Materials, Mathematical Modelling & Analysis II,
Engineering Dynamics, Mechanical Engineering Practical Skills,
German Level 5 Business and Current Affairs.

Bancroft's School

London, UK

A-Levels

September 2017 – June 2019

Maths A*. Further Maths A, Physics A, German B

GCSEs

September 2015 – June 2017

4A*, 4A, 2B

Relevant experience

UCL Racing Club

Formula 1 in Schools Mock Challenge

January 2021 – Present

CAD: used Autodesk Fusion 360 to design the scale race car.

MATLAB: used MATLAB (and Excel) to develop simulation models for the vehicle.

UCL Drone team

UCL Team Nova Student Engineer

February 2020 – Present

CAD: used Autodesk Fusion 360 to design the frame of a race drone.

Marketing: used Autodesk Fusion 360 to create promotional material for LinkedIn and Instagram.

UCL Formula Student Racing team

Assistant to Fourth Year Students

October 2019 – Present

Management: worked on the costing and Bill of Materials for the Formula Student race car.

Electrical Design: helped design electrical circuits for components on the race car.

Engineering projects

IMechE Challenge - Squash ball line launcher

Spring 2020

Communication: as the team leader, I liaised with and effectively distributed tasks among my team, playing to the various strengths of my team and meeting deadlines.

Design: used CATIA V5 to produce our first prototype line launcher. MATLAB was also used for simulation and modelling.

End-to-end project management: communication was primarily achieved through Microsoft Teams, where project files were uploaded and worked on together, including a 30 page design portfolio.

Other experience

UCL Mechanical Engineering Department

Student Ambassador January 2020 – Present

Attend department outreach events in the capacity of a current student e.g. Offer Holder Events, departmental tours.

Panellist for interviews for senior teaching position for the Control and Instrumentation module.

Part of the student media team in the department, responsible for interviewing staff, researchers and alumni.

As a Transition Mentor, I am responsible for ten first year students, offering advice and signposting mentees to relevant resources.

Service and outreach

UCL Project Impactive

January 2021 – Present

CAD Mentor for the Accessibility Challenge 2021. I supported young children in developing skills on Autodesk Fusion 360 over the course of a three day event.

UCL Engineering Society

September 2020 – Present

Events Executive. I am responsible for arranging speakers to come in and deliver engaging talks from a variety of engineering related industries e.g. Mercedes AMG HPP and ARM.

UCL Mechanical Engineering Society

November 2020 – Present

Marketing Executive. I create content for use on social media channels such as Instagram and promote the activities of our society to the 1000+ students in the department.

Skills

Programming and software

Proficient in: Fusion 360, CATIA V5, MATLAB, \LaTeX , Office & Adobe Suites.

Familiar with: Simulink, ANSYS, C++, HTML, CSS, Python.

Languages

English (native), Urdu (mother tongue), German (advanced)

Honours and scholarships

Arkwright Engineering Scholarship

2017

Other interests

President UCL Photo Society 20-21'. Co-Founder UCL Food Society 21'.

Theatre Sound Designer for UCL productions (UCL Stage Crew)