

# Hasha Dar

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E-Mail: zcemhhd@ucl.ac.uk  
Mobile Phone Number: +447305576221  
Website: hashadar.com

EDUCATION	<i>Mechanical Engineering MEng</i> , University College London <b>2019 - 2020</b> Key modules: Mathematical Modelling & Analysis, Fundamentals of Materials, Engineering Dynamics, Introduction to Thermodynamics and Fluid Dynamics, Mechanical Engineering Practical Skills.
	<i>A-Levels</i> , Bancroft's School <b>2017 - 2019</b> Mathematics A*, Further Mathematics - A, Physics - A, German - B
	<i>GCSEs</i> , Bancroft's School <b>2015 - 2017</b> 4 A*, 4 A, 2 B
ENGINEERING PROJECTS	<i>IMechE Challenge - Squash ball line launcher: Design, build and test</i> <b>2020</b> <ul style="list-style-type: none"><li>• <b>Design:</b> designed a line launcher in a team of six to fire a squash ball (40mm) with a line attached into a target with a diameter of 120-490mm. Budgeted to cost no more than £25 and used bought parts as well as proprietary parts.</li><li>• <b>Communication:</b> 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.</li><li>• <b>IT:</b> Used CAD modelling (CATIA) to produce our first prototype line launcher. MATLAB code was also used for calculations.</li><li>• <b>Written communication:</b> A 30 page design portfolio and a PowerPoint presentation were produced to present to a panel of 5 engineering experts.</li><li>• <b>End-to-end project management:</b> Communication was primarily achieved through Microsoft Teams, where project files were uploaded and worked on together.</li></ul>
OTHER RELEVANT EXPERIENCE	<i>UCL Formula Student Racing team</i> <b>2019 - 2020</b> <ul style="list-style-type: none"><li>• Worked on the costing and Bill of Materials for the Formula Student race car.</li><li>• Helped design electrical circuit diagrams for components on the race car.</li></ul>
	<i>UCL Drone team</i> <b>2020</b> <ul style="list-style-type: none"><li>• Part of a team designing and building a high performance race drone.</li><li>• <b>IT:</b> using CAD modelling to design the main frame of the drone with Autodesk Fusion 360.</li></ul>
OTHER EXPERIENCE SOFTWARE	Organized and directed the 1988 and 1989 Grand Marshall Week "Basketball Marathon." A 24 hour charity event to benefit the Troy Boys Club. Over 250 people participated each year.

**EXTRA-  
CURRICULAR  
ACTIVITIES**

Elected *House Manager*, Rho Phi Sorority  
Elected *Sports Chairman*  
Attended Krannet Leadership Conference  
Headed delegation to Rho Phi Congress  
Junior varsity basketball team  
Participant, seven intramural athletic teams

**PERSONAL  
INTERESTS**

Elected *House Manager*, Rho Phi Sorority  
Elected *Sports Chairman*  
Attended Krannet Leadership Conference  
Headed delegation to Rho Phi Congress  
Junior varsity basketball team  
Participant, seven intramural athletic teams