

—Edward Cray—

Product Design Engineering Student



Profile —

I am a 3rd (Placement) year Product Design Engineering (BSc) student at Brunel University London. Over the last 6 years studying Product Design I have developed a wide understanding of design process and principles. I have become proficient in a range of computer software for Computer-Aided-Design & Manufacture, Visual Representation and Simulation & Analysis. My key interests in design are a mix of functional innovation and efficiency alongside quality and craftsmanship; designing optimum solutions for whatever the situation.

As well as learning the theoretical side of design in education, I have also had hands on experience as a freelance furniture designer doing work with retailers, businesses and selling pieces directly to customers. This has taught me valuable lessons about how to engage with different clients, the importance of good communication and meeting their expectations and specifications. From both education and my own design work I have gained a lot of experience in workshops allowing me to develop strong practical skills and knowledge of machinery and techniques. My work has mainly been in wood; moving forward I would like to explore it in modern contexts and applications utilising new manufacturing techniques and new technologies.

Skills —

Software Experience	- Adobe InDesign	Practical Experience	- Extensive woodworking	Core Skills	- Leadership
	- Adobe Illustrator		- Wood turning		- Team-working
	- Adobe Photoshop		- Laser cutting		- Working to specification
	- Microsoft Office Suite		- Rapid prototyping		- Engaging with clients
	- 2d Design		- Modelmaking		- Working to deadlines
	- Solidworks		- CNC routing		- Marketing to customers
	- PTC Creo Parametric		- Metal / plastic fabrication		
	- Adams simulation		- Technical Drawing (Isometric / Trimetric / Orthographic).		
	- Serif Webplus 5-8		- Perspective sketching		
	- Serif Pageplus				

Education —

Brunel University
London

Studying for Product Design Engineering (BSc)

Year 1 & 2 completed with a 2:1 overall grade

Relevant Modules —

- Design Process 1 - Design Process 2
- Materials and Manufacturing - Design for Manufacture
- Mechanics for Design - Dynamics and Stress Analysis
- Electronics and Mathematics - Programming and Interfacing
- Graphic Communication - Design Communication

The College of
Richard Collyer

Principal's Student of the Year Award 2018

A-Level Product Design with Graphics

A-Level Maths A-Level Physics AS-Level Geology

Attitude award 2018

— Work, Experience and Positions Held —

Aug 2019 – Present	Sailing Instructor at Datchet Water Sailing Club.
Jul 2019 - Present	Vice Commodore Brunel University Sailing Club.
Sept 2018 – Present	Safety Coxswain at Datchet Water Sailing Club.
Sept 2017 – Present	Scout Leader with 1st Cuckfield Scouts.
Jan 2016 - Present	Freelance Furniture Designer and Maker.
Apr 2017 – Apr 2018	Student Governor at the College of Richard Collyer.
Sept 2017 – Jul 2018	Student Ambassador at the College of Richard Collyer.
Feb 2017 – Sept 2018	Partner at Waitrose & Partners (Returning Christmas 18/19 & 19/20).
Mar 2016 – Sept 2017	Radio Operator for Yacht section racing at Chichester Yacht Club.
Aug 2015	Work experience in Civil Engineering w/ Mott McDonald.
Jun 2015 – Jul 2015	Volunteering w/ Partner Schools Worldwide in Ankasse rural Ghana.

Other Interests —

Alongside woodworking, my other main passion is sailing. A keen member of Chichester Yacht Club, I have sailed in a variety of dinghies and yachts both for pleasure and competitively. I have competed in light-hearted club racing as well as more serious events such as National British University events. Through connections made in yacht racing, I was invited to complete an ocean passage from The Azores to the UK in 2018; 1 of a 4-person crew. Covering 1600 NM non-stop, this qualified me to join the Ocean Cruising Club. During my time sailing I have gained a number of qualifications and enjoy teaching on the water too. Currently I actively participate in the running of my university's sailing Club as Vice Commodore, where I am responsible for guiding the rest of the committee to ensure the success and longevity of the club.

When not sailing, I still love being on the water. I am a competent power boat helm and also a qualified Safety Coxswain. This has allowed me to support national sailing events as a safety boat, being responsible for course layout, boat/person rescue & recovery, first aid and general safety on the water. One day it would be my dream to take this to the next level and volunteer with a Lifeboat Crew to help them with their incredible work.

I am also a big Land Rover fan. In any other spare-time I have, you will find me working on my 20-year-old Defender 90.

Additional Achievements —

- 2014 - RYA Dingy Sailing Level 2
- 2015 - Chichester Yacht Club Silver Jubilee trophy
 - RYA Power Boating Level 2
- 2018 - B+E Heavy trailer towing licence
- 2019 - RYA First Aid
 - Marine Radio Short Range Certificate (SRC) (VHF)
 - RYA Safety Boat
 - RYA Dingy Instructor
 - RYA Day Skipper

Contact

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Edward Cray on:

