

# Kinkit Wong

## GCSE

**Hampton School**  
2009—2012

**A\* (6)**

Maths, DT, Physics,  
Chemistry, Biology, Mandarin

**A (4)**

French, English Literature,  
English Language, History

## A Level

**Hampton School**  
2012—2014

**A\* (2)**

Maths, Physics

**A (1), B (1)**

DT (Resistant Materials),  
Further Maths

## University of Bath

**Integrated Design Engineering**  
2014—2019

**Current Average: 71.1%**

User Centred Design	:	73%
Mechatronic Design	:	74%
Product Design & Dev.	:	77%
Solid Mechanics 4	:	79%
Fluid Dynamics	:	89%
Business Processes	:	74%

## Personal Information

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## Projects

### User Centred Design

This project required modification of an ATM to suit the needs of a person with a disability. It required close iterative work with a client through multiple interviews and prototypes. Prototypes were not only physical, but also software based (User interface prototyping).

I learnt how to effectively interview clients and obtain their unbiased view, gaining valuable useful data and improving the design from the results.

I improved in manufacturing capability, client based work and user interface design.

### Mechatronic Design

A course mate and I were tasked to mark magnets, hidden beneath sand in a given area, with plastic cups using a fully automated system.

The method we devised was to use an Arduino tethered to MATLAB to control a hall effect sensor along with stepper motors, DC motors and bespoke prototype parts.

We used a rotating key and keyway method to securely lift and place the cups quickly and reliably.

I improved in coding, mechatronic design, electronics integration and concept generation.

### Group Business Design Project

Currently, I am working within a team of 6 and designing an electric wheelchair for pre school children in developing countries.

I have contributed to the research by going to disability exhibitions and contacting companies across the world in order to understand the needs of the market.

I modelled a large portion of the final design and assembled it effectively, allowing for easy integration of different representations, 'global' parametric modelling and animations.

This project has improved my CAD modelling skills, market research abilities and team communication greatly.

### Reverse Engineering and Disruptive Innovation

Working in a team of 5, we were tasked with disassembling a coffee machine, figuring out the function and cost of each component within and using its technology in a novel way.

I performed multiple experiments to figure out the function of each design, understanding the product in detail. Then using this knowledge, I adapted the components into a new product to disrupt a new market.

My final design consisted of using the heating element within the machine as a modular electric heater that can be used as a portable camping stove as well as a bath water heater and water filter system.

I improved greatly in teamwork, experimentation, problem solving and concept generation.

### Pill Bottle Design

The task was to design an improved child proof pill bottle that can be used easily by the elderly within two hours.

I managed a team of 5 people, gathering ideas from each person and combining them.

I centred our designs around the 5 senses, and how we could use each effectively to detract children from the pill bottle - such as bland colours to not attract sight and padding inside the bottle to avoid sound.

I greatly improved my team management skills, problem solving ability and effective communication through this project.

Internships	
<b>UBS</b> London 2008, 1 Week Expenses paid	<p>At UBS, I had the opportunity to learn how to code on ‘Visual Studio’. I was tasked with designing a method of displaying customers’ stock progress in a simple and clear way.</p> <p>I designed the graphics and programmed the relationships between it and the actual values.</p>
<b>Nice Agency</b> London 2009, 2 Week Unpaid	<p>Nice Agency is a app design company in London. The internship started around Christmas, hence I was asked to create a company Christmas app that could be distributed as a marketing tool.</p> <p>I designed and storyboarded the app through Photoshop and Illustrator, ensuring its design matched the company’s aesthetics. At the end of my two weeks, I had an opportunity to present my idea to the CEO of the company.</p>
<b>BOSCH</b> Stowmarket 2017, 1 Year Paid	<p>During my studies, I obtained a year long placement with ‘BOSCH, Professional Lawn and Garden’, a subsidiary of ‘Robert Bosch GmbH’, based in Stowmarket.</p> <p>I aided in both testing and creating test procedures from ISO standard for a wide variety of gardening products before they were released to market along with designing improvements to the current line of professional tools through CAD (PTC Creo Parametric) and prototyping.</p> <p>I was heavily involved in the early concept and prototyping stage of many products.</p> <p>I also had the opportunity to join on company visits to machining and injection moulding suppliers as well as customer visits in Switzerland.</p>
Employment	
<b>ODEON</b> Esher 2014, 2 Months	<p>Working at ODEON involved considerable cleaning of theatres and customer interaction. I exceled especially in customer service via the most sales of ‘combo deals’ and loyalty cards as well as having the most positive customer reviews. This resulted in me winning the employee of the month award in my first month.</p>
<b>Tossed</b> Cobham 2015, 1 Months	<p>As an employee, I was required to make food such as salads and wraps according to precise instructions given by the company as well as upholding the jovial nature they portray. I was able to familiarise myself with all the processes and excel in speed and customer service, resulting in me winning the employee of the month award.</p>
Extra Curricular Activities	
<b>Young Enterprise</b> 2014	<p>As an external project, 5 of my classmates and I started a company together called ‘Axis’ and attempted to raise money to fund our business plan of travel toiletries. I was in charge of designing the product and creating fundraising strategies.</p>
<b>Film Prop Manufacture</b> 2018	<p>I was asked by an external student group creating a short film to manufacture a custom home assistant for them. This involved remaining in constant contact with them, understanding their needs and finally creating a home assistant prop which consisted of 3D printed and laser cut components encasing a mini Arduino which controlled the LED lighting system within.</p>
<b>Tennis</b> 2011— Present	<p>I have played tennis since I was 16 and have completed the level one tennis leadership course, thus I am qualified to assistant coach under 9s which I did from 16-18 years old.</p>
<b>Hip Hop/Break Dancing</b> 2014 — Present	<p>Since starting University, I have leant to dance via the break dancing society, ‘Burban’. I have been on committee for 3 years running, acting as ‘Urban Leader’, ‘Urban Vice Leader’ and ‘Chair’. During my time on committee, I was able to increase the society’s membership and enter Burbn into their first Hip Hop competition. I choreographed many pieces for both performances and competitions and ultimately won multiple awards including first place in ‘Novice Hip Hop’.</p>