

# 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

A self service machine required modification in order to allow for easy accessibility by disabled users.

A course mate and I conducted many interviews with a disabled user at a local hospital to understand their needs.

We designed solutions tailored to their requirements and created many low fidelity prototypes in order to gauge their interest in certain features.

Using their feedback, we iteratively improved the design and created a final solution that the client could use comfortably.

### 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 and code through 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.

The final system would automatically move and place markers on 5 magnets within 15 minutes.

### Group Business Design Project

Currently, I am working within a team of 5 and designing an electric wheelchair for pre school children in developing countries.

I have been in charge of the product styling and management. This entails me creating a large majority of the design specification through market research, interviews with occupational therapists and international standards. Each requirement was quantitative and had test procedures associated to it.

Styling wise, I have gone to disability exhibitions and contacted companies across the world in order to understand the needs of the market, what children enjoy and the existing product competition.

### Reverse Engineering and Disruptive Innovation

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

I performed multiple experiments on a variety of components and figured out reasons behind their designs.

Once the product had been understood, I had to adapt the technology to create a new product that would 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 heating and filtration system.

### Pill Bottle Design

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

I worked in a group of 5 and acted as the main designer, gathering ideas from each person and combining them.

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

We achieved 95% in 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>