

Kinkit Wong

Design Portfolio : <http://2kdesigns.co.uk/>

Key Achievements

BOSCH

Handle System Design - Designed a multitude of handle adjustment mechanisms and studied patents to ensure IP safety. Created working prototypes, tested with users and against ISO standards. Presented the final prototype to the entire department.

Chief Test Engineer - Created test procedures for a new product with respect to standards. Managed test engineers and carried out all tests comfortably within deadlines. Wrote formal test result documents and ideated solutions to solve problems that arose from tests.

Design Engineer - Created tolerance stack-ups for complex assemblies for new products during the early design stages. Created professional working drawings, given to external companies for manufacture of bespoke components. Assembled early prototypes and carried out ISO standard tests.

Contact

Information

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Disruptive Design Card Game

When working in a new design team, having the confidence to share ideas may be difficult for some. A friend and I created a tool to tackle this issue by developing confidence through problem solving and social activities. The card games revolves around creative idea generation through disruptive design principles coupled with hands on prototyping and presentation technique. We have tested the game on multiple users and developed it into a working prototype that achieves our objective.

University Projects

Group Business Design Project - 70%

Brief - Design an electric wheelchair for pre school children (14months - 5 years old) in developing countries. The product should be low cost, affordable and culturally appropriate, coupled with a suitable business and distribution strategy.

Product manager in a team of six. Oversaw the design of the product and maintained a coherent design aim throughout. Created a design specification, which drew information from British Standards and market research (both primary and secondary), in order to maintain focus on solving the design brief. Organised and participated in many unique idea generation activities such as 'Tiered Mind Map' and 'BBB Brain Sketching'.

Was CAD lead during development and created a majority of the components and all assemblies on CAD (Autodesk Inventor Professional 2018). Effective use of 'global' parametric modelling, assembly representations, animation and rendering. Organised market testing at local nurseries. Created low fidelity prototypes for the tests, gaining a deeper understanding of market requirements.

Mechatronic Design II - TBD

Brief - Create an automated robot that delivers medicine to astronauts in need on Mars.

I was the hardware lead in a team of 4. Elements of the electronics and software were understood in order to successfully integrate the hardware effectively into the design. Designed all mechanical components through sketches and CAD. Prototyped the design using a mixture of 3D printing, laser cutting, lathe and milling.

The mechanical robot was tested and improved iteratively through experiments and analysis via solid mechanic theory. Wheels were optimised for maximum power transmission and weight distribution was used effectively to ensure the centre of mass remained low and on the central vertical axis. This created a stable and effective autonomous robot.

Languages

English (Native Language)

Mandarin (Conversational)

Cantonese (Conversational)

Integrated Design Engineering University of Bath 2014—2019	A Level Hampton School 2012—2014	GCSE Hampton School 2009—2012
<p>Current Average: 71.1%</p> <p>User Centred Design : 73%</p> <p>Mechatronic Design I : 74%</p> <p>Product Design & Dev. : 77%</p> <p>Solid Mechanics 4 : 79%</p> <p>Fluid Dynamics : 89%</p> <p>Business Processes : 74%</p>	<p>A* (2)</p> <p>Maths, Physics</p> <p>A (1), B (1)</p> <p>DT (Resistant Materials), Further Maths</p>	<p>A* (6)</p> <p>Maths, DT, Physics, Chemistry, Biology, Mandarin</p> <p>A (4)</p> <p>French, English Literature, English Language, History</p>

Internships

BOSCH Stowmarket 2017, 1 Year Paid	Year long placement with 'BOSCH Professional Lawn and Garden'. Aided in both testing and creating test procedures from standards for a wide variety of gardening tools. Designed improvements to the current line of professional tools using CAD (PTC Creo Parametric) and prototyping. Involvement in the early concept and prototyping stage of many products.
Nice Agency London 2011, 2 Week Unpaid	<p>Created a company Christmas app that could be distributed as a marketing tool.</p> <p>Designed and storyboarded the app through Photoshop and Illustrator, ensuring its design matched the company's aesthetics. Presented my idea to the CEO of the company.</p>
UBS London 2010, 1 Week Expenses paid	Coded visual display of stock progression for customers on 'Visual Studio'. Close communication with managers and constant feedback used to improve the design. Final design presented to the CEO at the end of the week.

Employment

ODEON Esher 2014, 2 Months	Cleaned facilities, manned tills and restocked shelves. Excelled in customer service with most sales of 'combo deals' and loyalty cards. Many personal positive customer reviews online. Resulted in winning the employee of the month award.
Tossed Cobham 2015, 1 Months	Made food such as salads and wraps according to precise instructions given by the company as well as upholding the jovial nature they portray. Excelled in speed and customer service, resulting in an employee of the month award.

Extra Curricular Activities

Film Prop Manufacture 2018\	Created a personalised home assistant film prop for a short film. Constant contact with client, understanding their needs. Created a prop which consisted of 3D printed and laser cut components encasing a mini Arduino which controlled a LED lighting system within.
Hip Hop/Break Dancing 2014 — Present	Started dancing at university as part of a society. Have been on the committee for 3 years, 'Urban Leader', 'Urban Vice Leader' and 'Chairman'. Increased the society's membership and entered them into their first Hip Hop competition. Choreographed many award winning pieces; 1st place novice hip hop and 2nd place trios at the UCL transcendence competition.
Tennis 2011— Present	Played tennis since the age of 16 and have completed the level one tennis leadership course, thus am qualified to assistant coach under 9s.