Yang Liang

I'm really passionate about innovating, developing and problem-solving.

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Education

Imperial College London, MEng in Design Engineering, Oct 2020 - June 2024
Expected First-class honor (First year 63% and second year 66% overall)
- Relevant Modules: Engineering Mathematics, Computing, Data Science, Materials, Solid Mechanics, Industrial Design, Electronics, Web Design, Robotics, FEA and optimisation.

Projects include:
- **Sustainable design project**-Developed sustainable concept for air freshener, starting with a future scenario ideation and moving on to environmental product design, manufacturing processes, and generated a unique recycling systems.
- **Thermofluids project**-Created and modelled alternative sports automobiles, tested and compared them to current models to find viable improvements using CFD simulation in Solidworks.

Work Experience

Electric Scrubber Design, Imperial College London Mar - Jun2022
- Background researched to find underserved user group and decided to focus on low dexterity people.
- Utilised user research to create personas for the target users and uncover the insights through interviews.
- After conducting market research, developed initial concepts, got user feedback, and refined the concept.
- Used Solidworks and 3D printer to produce the final scrubber parts, then assembled and tested.
- Branded the item as Salter's merchandise after branding analysis, and designed the label and package in accordance with product compliance. (All in a team and generated portfolio using indesign)

Gizmo Projects, Imperial College London Oct 2021-Mar 2022
- Individually created a human interactive electro-mechanical car alarm using infra-red sensor, motors, microprocessor, LCD, buzzer and so on from Arduino kit.
- Designed and produced a hand-operated mechanism to demonstrate the effect that automobiles have on the environment and solution to reduce pollutions using Solidworks and 3D printer.

Materialise and Reverse engineering, Imperial College London Oct 2020-Mar 2021
- Materialise - Used Ashby plot in CES EduPack to compare performance indices for all materials to select the most suitable material after initially choosing the materials for the walk-way bridge based on general characteristics, mechanical properties, and experiential properties within the limits.
- REVENG- tear-down of glue gun to discover assembly methods and distinguished the materials and costs with methods; analysed the manufacturing process of different components; evaluated the carbon dioxide footprint and embodied energy of every components and suggested possible improvements.

Artificial Hands Design, ASDAN China Aug 2019
- Co-created with team artificial hands for disabled children to improve their wellbeing.
- Created models with the measurements taken from the children using Inventor and manufactured them through 3D printer.
- Tested and gave away the actual personalised entities for free after improvements with the user feedbacks.

Employment

Maintenance technician, Maintenance Center, Audi(Wuhan) Summer 2021
- Understood the internal structure of motor vehicles and the assembly methods of important components.
- Assisted in parts assembly and testing, also be responsible for the dispatch and allocation of auto parts.

Technical Skills

- **Modelling:** Solidworks, Inventor, 360fusion, Keyshot, 3D printer (FDM, SLA, DLP)
- **Product design:** Market research, Prototyping, Product Validation, Branding & Pitching, System analysis
- **Graphic/Ux design:** Adobe Indesign, Adobe Photoshop, Adobe Illustrator, Microsoft Office365, pages
- **Programming:** Python, MATLAB, HTML, Java, VB.net