

WAYNE SHI JIE WEE

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WORK EXPERIENCE

Shopee (Product Management Intern) Singapore

May 2020 – Aug 2020

- Facilitated the development and enhancement of internal data tools for the business intelligence team.
- Backlogging user requirement and pain points to improve internal data analysis tools for BI team.

Porifera Inc (Product Developer, Mechanical Engineer Intern) USA

Jan 2019 – Dec 2019

- Took up a product developer role when I developed a web app calculator after discovering that fellow engineers needed a quick and mobile way to make specialized calculations; this product was then tested and shared with the company's clients.
- Developed an algorithm to determine the composition of a 3-part mixture given its density and refractive index. This reduced analysis time from two hours to two minutes and improved its accuracy, worth \$100k.
- Supervised a team of three technicians in a six-month long project to design, build and test an energy recovery system for forward and reverse osmosis applications.
- Conducted market research and crafted a case study on Porifera Inc to analyze challenges faced and potential developmental strategies as part of NUS undergraduate overseas entrepreneurship program.

DSO National Laboratories (Research and Development Intern) Singapore

Jan 2016 – Jun 2016

- Prototyped and tested a drone catching system under the Guided System Division.
- Researched and fabricated a miniature 2.4 Ghz RF filter on a PCB board under the Engineering Division.

EDUCATION

National University of Singapore (NUS)

Aug 2016 – May 2020

- Bachelor of Engineering (Honours) in Mechanical Engineering, with innovation and design programme.
- Received Professional Engineers Board Scholarship (AY16/17, AY17/18) which recognizes students with outstanding academic performance and strong records of participation in co-curricular activities.
- Led the Christian Fellowship in Tembusu College and spearheaded a relational network between fellowship groups and campus ministries in NUS and YaleNUS involving over 300 students (AY16/17, AY17/18).
- Pioneered a Product Management interest group with 20 students to practice case questions and share best practices.

Stanford University

Jan 2019 – May 2019

- Enrolled in entrepreneurship modules as part of NUS Overseas College Silicon Valley program (Grade: A).

INNOVATION CHALLENGES & HACKATHONS

Minerva Hackathon, GitHub San Francisco, 2019 (Finalist)

- Created a chrome extension that highlights carbon footprint of purchases made on Amazon and nudges Amazon customers towards eco-friendly products with a lower carbon footprint.

Design For Humanity, National University of Singapore, 2017 (Champion)

- Designed an LED badge that enables an individual with visual disabilities to call for assistance in a non-intrusive manner while preserving the dignity of individuals.

Singapore Power Innovation Challenge, Singapore Power Group, 2017 (Champion)

- Conceptualized and prototyped a model for harnessing energy of rainwater and storing of excess electrical energy as a form of gravitational potential energy in high rise buildings.

SKILL SET

- **Software Tools:** Jira, Confluence, Figma, Trello, Adobe XD, Microsoft Office, Tableau, Shopify
- **Programming:** Python, HTML, CSS, JavaScript, SQL, React JS, Google Analytics
- **Projects:** Freelanced as a digital consultant to help F&B and retail stores launch their ecommerce platform

For more personal projects and information: <https://wayne-wee-shi-jie.web.app/>

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TESTIMONIAL

Porifera Inc (Product Developer, Mechanical Engineer Intern) USA

Jan 2019 – Dec 2019

“I had a pleasure of getting to know Wayne for a full year while he was an intern at Porifera. He always had lots of ideas for how to improve what we do. He is curious and is a fast learner. He is a great communicator and an excellent team player.”

– Olgica Bakajin, Ph.D, Founder and CEO

“Wayne is one of the few engineers with great business acumen. He carries a vast knowledge of business processes and IT technologies and always finds a way to combine them to produce a solution. Wayne is a smart learner. He can grasp things quickly and you'll never see him daunted to work on new things. He is fun and pleasure to work with. Wayne has a huge potential and I wish him success in all the prospects.”

– Shankar Pakkuru, Project Engineer

“Wayne is a great person to work with and always has a positive attitude. He is always eager to dive into new projects and quickly learns new skills. I was impressed with his enthusiasm regarding data analysis and all the information he was able to get out of a set of data. He also programmed some complex online calculators for our company which took him much less time to complete than I expected.”

– Adam Sharp, Design Engineer

DSO National Laboratories (Research and Development Intern) Singapore

Jan 2016 – Jun 2016

“Wayne displayed outstanding performance for his internship, displaying an uncanny ability to develop some form of analogue intuitive appreciation for the problems assigned, and from which he consistently demonstrated strong generic problem-solving capabilities and completed the assigned tasks satisfactorily. His performance outshone engineers with an undergraduate background in the relevant domain knowledge.”

– Kevin Ming-Jiang Ho, Ph.D, Senior Member of Technical Staff