Walter Tay Ann Lee

+65 9868 6218
walter.spades@gmail.com
waltertay.com

RELEVANT EXPERIENCE

igloocompany   Singapore
Assistant Product Manager   *July 2020 - Current*

igloocompany is a fast-growing startup that is revolutionizing the smart access industry in consumer and enterprise spaces with its proprietary algoPIN^{TM} technology.

- Supported **doubling of YoY revenue** by leading the software release of 11 smart devices and an API product as the Product Owner of the igloohome app, iglooworks app, and iglooworks dashboard.
- **Doubled velocity** of software development for our Korean manufactured products by proposing, managing, and designing (Figma) an automated test app.
- **Covered for multiple gaps** related to company's high turnover. This involved leading Product and managing defunct operations following the departure of 2 Head of Products, our Software PM, and our Operations team.
- Presented on **leading research** in the field of practical combinatorial testing. This concept was used to generate a combinatorial test plan for the Bridge (a pull-through revenue strategy product).
- Independently **identified design flaws** with the linking behaviour of two smart devices by reading technical documentation and proposed new designs to fix those flaws.
- Spearheaded the **redesign of a Product Registration System**, which eliminated defects in input and provided immediate resolution steps through better error messaging.
- **Increased user's rating** by an average of 1.7 stars by spearheading an app review initiative.
- **Introduced the concept of Tidy Data** to our Software Engineers, which led to a new database. We use this database to recursively identify the correct firmware version for our locks.

Robert Bosch   Singapore
Corporate Research Intern   *July 2018 - Dec 2018*

Robert Bosch is a German multinational engineering and technology company motivated by the desire to develop products that are "Invented for life".

- **Developed hardware and software** to evaluate commercially-available Pressure, RGB, TVOC, and TOF sensors.
- Conducted **wind tunnel experiments** to study sensor output from filters at different contamination levels and recommended the most promising sensing principle.

EDUCATION

National University of Singapore
Bachelor of Mechanical Engineering, Honours (Distinction)   *Aug 2016 - May 2020*

- ASEAN Undergraduate Scholarship - a prestigious full-ride scholarship for international students
- Senior Honour Roll, University Scholars Programme - a unique interdisciplinary curriculum at NUS

PROJECTS

- Deep Reinforcement Learning for Mapless Navigation   *Aug 2019 – May 2020*
- Automated Mobile Gangway for PSA Marine   *Aug 2019 – Dec 2019*
- 2D Finite Element Software Development   *Jan 2019 – May 2019*

SKILLS

- **Technical**: Python, C, Lisp, MATLAB, Arduino, TensorFlow, VBA
- **Language**: Native in English, proficient in Malay, conversational in Chinese, Hokkien, and basic Japanese

COURSEWORK

- **Engineering**: Deep Reinforcement Learning, Finite Elements, Mechatronic Systems, Feedback Control Systems, Materials for Engineers, Manufacturing Processes, Project Management
- **Liberal Arts**: Quantum Computation, 'Language, Cognition, and Culture', Mathematics and Reality, Brain and Behaviour, 'Cultures, Civilizations, and Ideas', War and Democracy, Issues In and Around Justice