

Kwa Jian Quan

CONTACT INFORMATION

Phone: +65 8338 2157
Date of Birth: 10/04/2003
Nationality: Singaporean

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Website: K-J-Q.github.io/realIndex

EDUCATION

Nanyang Polytechnic, Singapore

Diploma with merit in Electronic & Computer Engineering, Diploma Plus (2023) | GPA: 4.0/4.0

- Calyon Creativity Award
- Institution of Engineers, GOLD medal
- SICK product center asia, GOLD medal + Outstanding project work

Pei Hwa Secondary, Singapore

Distinction (A1) for Mathematics, Additional Mathematics and Science (2019)

Further/Additional Studies:

SkillsFuture Singapore: Project management, Scrum Master, ITIL4 Foundation, Power BI and Certified Ethical Hacker

Google Inc: Advanced Data Analytics, IT Automation and Cybersecurity professional certificates

DeepLearning.AI: Deep Learning and Generative Adversarial Network specialisations

Stanford Online (Coursera): Machine Learning

EMPLOYMENT

iWoW Connections (Contract)

Associate Software Engineer, March 2023 – September 2023

- Researched, developed, and implemented C codes on microcontroller.
- Created automated test cases and test jig.

DSO NATIONAL LABORATORIES (Internship)

Cochannel Speech Detection Using Machine Learning, September 2022 – February 2023

- Achieved 92% accuracy on small, lightweight model.
- Implemented and optimised a fully custom model pipeline.
- Designed Graphical User Interface to display model output, and aid in data visualisation.
- Written efficient and low-overhead codes for fast model training.

GRAB HOLDINGS (Part time)

Mapping Coordinator/Admin, September 2020 – October 2020

- Generated and audited client's search request to the actual location.
- Provided better search results by improving the POI (Point of Interest) database.

SKILLS

Engineering design and Fabrication: 3D CAD Design PCB Design 3D Printing Laser Cutting Electrical soldering and debugging	Programming: C (embedded systems) C# Python JavaScript SQL Machine learning (PyTorch)
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Projects available at: K-J-Q.github.io/projects

HONORS AND AWARDS

DSO Diploma Scholarship: 2021

Director's List: *Y1S1, Y1S2, Y2S1, Y2S2, Y3S1, Y3S2 (all semesters)*

Skills Award: 2023

Innovative Project Award: *Y1S1, Y1S2*

M5 Stack Innovation Award: *Y1S2*

1st Runner Up in Engineering Innovation Challenge: 2021

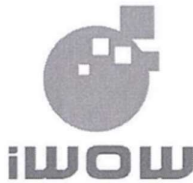
Academic and Leadership (EAGLES): *2019*

Service Award for vice-president of Robotics: *2019*

Peer Tutoring: *Y2S1, Y2S2*

Certificates viewable at: K-J-Q.github.io/certificates

TESTIMONIALS (1/4)



iWOW Connections Pte Ltd

1004 Toa Payoh North #03-10
Singapore 318995
Office (65) 6748 8123 Fax (65) 6748 2668
<http://www.iwow.com>
Company/GST Registration No. : 200010050Z

Private & Confidential

21st August 2023

To whom it may concern

TESTIMONIAL

Kwa Jian Quan (NRIC: TXXXX403I) completed a 6-month contract with iWOW Connections Pte Ltd as an Associate Software Engineer from 13 March 2023 to 1 September 2023. During this period, he works closely with the team on multiple projects and completed the followings:

NDA - contact for details

Jian Quan is a diligent individual who strives for excellence in whatever he is doing. He is organized, disciplined, and always determined to deliver his work on time. He is also quick-witted and managed to problem-solve most of the time.

I am happy to act as a reference for Jian Quan and you may contact me if you need further clarification.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'MKY'.

Mah Kian Yen
Chief Technology Officer
iWOW Connections Pte Ltd

TESTIMONIALS (2/4)

INTERNSHIP PROGRAMME COMPANY EVALUATION OF STUDENT'S PERFORMANCE

To be completed by Industry Supervisor (IS)

Company Name	<u>DSO NATIONAL LABORATORIES</u>	Supervisor Name	<u>Tan Ping Liang</u>
Student Name	<u>Kwa Jian Quan</u>	Student Admin No	<u>202525R</u>
Start Date	<u>5-SEP-22</u>	End Date	<u>18-FEB-23</u>

Attribute	Marks* Please circle accordingly	Comments, if any
Workplace		
1. Work Ethics and Professionalism	(10) 9 8 7 6 5 4 3 2 1	JQ is punctual and completes his work on time, consulting me whenever necessary.
2. Professional Proficiency	(10) 9 8 7 6 5 4 3 2 1	JQ has shown a wide breadth of competencies and skills — from hardware to software.
3. Quality of Work/ Work Outcomes	(10) 9 8 7 6 5 4 3 2 1	JQ managed to come up with a demo at the end of his internship — a rare achievement for interns at his level.
4. Communication and Teamwork	(10) 9 8 7 6 5 4 3 2 1	JQ consults well with me and his peers.
5. Independent Learning Skills	(10) 9 8 7 6 5 4 3 2 1	JQ independently learnt how to manage his time and develop a workflow for his ML project.
Comments by Industry Supervisor (for rating of 9 or higher, please provide specific examples) JQ successfully demonstrated his work through a working desk-top app in front of my lab and director. This is a rare achievement for interns at his level who usually only show machine learning results on a testset. JQ took initiatives to ensure that the demo went well. Overall, JQ showed strong interest in a wide range of engineering topics. The breadth and depth of his engineering interest will serve him well.		

TESTIMONIALS (3/4)

10 July 2019

To whom it may concern

Kwa Jian Quan was a member of Pei Hwa Robotics Club from 2016 to 2019. Since the day he joined the club, Jian Quan showed potential of being a capable programmer. He was part of the CoSpace Grand Prix team which focused on programming robots to complete a virtual and real racetrack in the fastest possible time and CoSpace Logistics which focused on programming an electronic arm to sort colored blocks. Through this platform, the club noticed his strong programming skills and saw his potential to perform at an advanced level. Jian Quan proved himself to be a fast learner, as he was able to pick up the advanced programming skills in short span of time. This was reflected through some of his participation and stellar achievements, which included representing the school in RoboCup Singapore Open 2016 (1st placing).

Jian Quan was appointed the Club's Vice-President in 2018. The club members had great respect for him and looked up to him as a role model as he was always providing them with support, such as troubleshooting their programs and teaching them new skills. One of Kwa Jian's biggest contribution came during the planning and executing of the RoboCupJunior CoSpace Pei Hwa Challenge, a national competition organized by our school to promote Robotics to other schools. He had to program Arduino robots and showcase to the guests and participants. He also took the initiative to design a program for potential Secondary 1 members to test and evaluate their skill level.

To further enhance his passion, Jian Quan also enrolled in the school's Applied Learning Program (ALP) interest group and contributed to the event "Tech Saturday" through coding and making of a shooting game for the carnival. The game was well received by the Guest of Honour, Dr Yaacob Ibrahim and local celebrity, Mr Romeo Tan.

Taking Design & Technology as an 'O' level subject, Jian Quan had the opportunity to learn on various technology topics such as mechanisms and electronics. Being a fast and keen learner, he was able to learn the professional 3D software "SolidWorks" with minimal guidance from the teachers and produce technical drawings for his coursework

As a leader and programmer, Jian Quan continues to work on himself to improve and he will do well in his future endeavors if he continues with this positive attitude.



Mr. RaghuRaman
Assistant Year Head (Lower Sec)
Design and Technology Teacher
Pei Hwa Secondary School

TESTIMONIALS (4/4)

Kwa Jian Quan is an honest and responsible student. He gets along well with his peers. He is motivated to improve in his academic work and co-curricular endeavours. He is eager to learn and pays attention in class in order to achieve a thorough understanding of his work. He is committed to extra hours of revision by taking the initiative to ask for extra work from his teachers.

Jian Quan is an independent learner who puts in the necessary effort to submit quality work. He is meticulous in handing in his assignments punctually. He is an eloquent speaker and communicates his ideas with confidence and poise. He puts extra effort into his work and is always ready to embrace new learning strategics.

Jian Quan takes his academic work seriously and takes the initiative to clarify his doubts to improve his understanding. He also enjoys peer tutoring his friends to help them improve on their work.

Jian Quan was an active member of the Robotics Club. He represented Pei Hwa Secondary School in several Robotics Challenges organised by different external institutions. The innovative projects have received several awards, both overseas and locally. In 2018, his team was also honoured with the Pei Hwa Student Innovation Award. As the Vice-President of the Robotics club, Jian Quan displayed commendable leadership qualities. He is a diligent and responsible student leader. He is humble and patiently guided his juniors in their work. In his free time, Jian Quan takes the initiative to enhance his interest in computer programming skills by teaching himself several programming languages. In recognition of his contributions, he was awarded the Pei Hwa Secondary School CCA/Service Award in 2019.

Despite his demanding schedule, Jian Quan devoted his time to help the less fortunate. He did not hesitate to offer his services to the school and community. In 2017, his class was involved in Community Day, a school-initiated event where he helped to run a stall to raise funds for selected voluntary welfare organisations. In 2018, he was a member of a team of students who undertook a Value-in-Action (VIA) programme, where his class taught Information Technology (IT) skills to a group of elderly for the Council for the 3rd Age (C3A). In 2019, he was involved in the Food from the Heart Charity Food Drive, where he helped to collect food donations from the neighbouring community.

Jian Quan displays the exemplary qualities of a model student. He does not hesitate to seek clarification to improve his work and is receptive to advice. He is able to keep a good balance of staying focused in his academic work while enhancing his life skills by participating actively in other school activities. He continually strives to improve himself in order to excel.