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d.o.b.: 15th February 1990

CURRICULUM VITAE

Education	2013 – 2014	Master of Science Sustainable Engineering: Renewable Energy Systems & The Environment University of Strathclyde, Glasgow, UK
	2009 – 2013	Bachelor of Science (Hons) Physics University of Strathclyde, Glasgow, UK
	2008 – 2009	Scottish Highers Clydebank College, Glasgow, UK
	2003 – 2007	Sijil Pelajaran Malaysia (SPM) SMK Sultan Abdul Samad, Petaling Jaya, Selangor
Professional Experiences	07.2022	<u>Regional Senior Executive Technical Sales Engineer; Business</u>
	- present	<u>Development Department, Ditrollic Sdn. Bhd., Petaling Jaya</u> A total energy solutions provider, Ditrollic focuses on the renewable energy sector, integrating solar PV, energy efficiency & energy storage technologies. Regional role executed with the teams namely in Philippines, Indonesia, China, Singapore & Bangladesh. 1 – Technical Sales Engineer: <ul style="list-style-type: none">• Understanding brief on proposals/tender & designing solar PV solutions to cater client needs• Conducting site visits for both industrial & large scale solar• PV system design simulations via HelioScope & PVsyst• Technical summary for internal purposes; to ease procurement of PV system components & initial pricing for commercial proposals• Tender document preparation focusing on the technical aspects• Manage clients' expectations; deliverables & timelines• Work with all departments within the company to realise the objectives of the client 2 – Quality Systems: <ul style="list-style-type: none">• Manage ISO 9001 within the department• Refining work processes to ease operations & integration between departments within the company

Professional
Experiences
(cont')

12.2020 **Business Developer, A&W International Trading Sdn. Bhd.**
- 06.2022 **(AWIT), KL**

AWIT focuses on international trading in personal protective equipment (PPE), specifically on nitrile examination gloves. AWIT forms partnerships with companies globally, one of which is Hilton Global Gateway.

Our notable achievement to date is an on-going buyer-cum-joint venture (JV) partner with Hartalega, the world's largest nitrile glove manufacturer. AWIT maintains liaisons between said JV partner & Hartalega to realise the manufacturing of the partner's own brand.

01.2018 **Sustainable Engineer, BOLT Industries Sdn. Bhd., KL**

- 12.2020 An engineering consultancy, BOLT Industries focuses on renewable energy (RE), energy efficiency (EE) & the Internet of Things (IoT). As a Sustainable Engineer, completed scope of work includes:

1 – RE consultancy:

- liaised with clienteles on RE systems
- designed & simulated solar PV systems
- prepared tender documents for bidding purposes
- prepared proposals & presented to clients
- conducted site visits & assessed feasibility

2 – On-Site Solar PV Installations:

- Quality Control (QC) Engineer & Project Manager (demobilisation & handing over) for an 8MW solar farm installation in Merchang, Terengganu; all requests for inspection of documents passed under my full supervision
- Project Manager for rooftop installations for both residential & commercial projects

3 – EE Consultancy:

- assessed & built energy models
- proposed methods of EE, i.e. implementing EE equipment, implementing equipment scheduling
- liaised with government agencies (i.e. SEDA) for clients to utilise publicly available EE initiatives

4 – Solar Thermal:

- Idaman Pharma Manufacturing plant, Perak – conducted thermal energy audit & proposed solar thermal technologies to complement the facility's energy mix
- audited thermal energy consumption of clients' factories
- to understand & analyse process flow & energy input of production lines

Professional
Experiences
(cont')

- simulated & designed implementation of solar thermal technologies into clients' process flow & assisted in realising their potential savings through solar thermal technologies

5 – **Business Development:**

- sourcing new clients & projects
- in-charged of expanding BOLT's services & portfolio in other areas of the energy industry; by means of research & collaborations with consultants from diverse technical backgrounds
- developed BOLT's EE arm
- up-to-date with new technologies for potential implementation in projects
- led collaborations with industrial partners, conducted memorandum of understanding (MoU)

6 – **IoT:**

- designed IoT ecosystems to achieve the desired monitoring solutions for clients, & obtained the right infrastructure & products to be integrated
- in-charged of IoT projects' designs, procurements, site management, commissioning, client liaisons & vetting sub-contractors for installation

7 – **Administration:**

- made official quotations, invoices, purchase orders (PO), delivery orders & contracts
- liaised & registered BOLT with government agencies – SEDA, CIDB
- liaised with company accountant on bookkeeping matters; followed up with clients on payments due

08.2016
- 10.2016

Research Assistant, PETRONAS Chair of University Malaya

Research conducted on a Therapeutic Sensory Stimulation Garden (TSSG) located in Menara Selatan, Pusat Perubatan Universiti Malaya (PPUM), KL. Research included methods of sustainable practices in TSSG maintenance comprising rainwater harvesting, composting and possibilities of RE implementation. Research was published in a book entitled *Therapeutic Sensory Stimulation Garden* (ed. Dato' Zaliha Omar) as a chapter on Sustainable Gardening.

Professional
Experiences
(cont')

- 07.2015 **Environmental-Sustainable Design (ESD) Engineer**
- 08.2016 **G-Energy Malaysia Sdn. Bhd., Petaling Jaya**
- 1 – **Green Building consultant:**
- cooperated and liaised with architects and engineers to attain green building design and ultimately obtaining green building certificates
 - completed the GBI Facilitator course
- 2 – **Green rating tools:**
- Experienced in implementing rating tools i.e., Green Building Index (GBI), Green Real Estate (GreenRE), Green Mark and LEED
- 3 – **ESD Team Leader:**
- Responsibilities were team coordination and ensuring completion of deliverables
- 4 – **Project management:**
- Experienced in handling projects from start to completion, including tender and procurement stages; individually entrusted and handled 7nos. of projects

Academic
Experiences

- 04.2018 **Participant, Solar Thermal Expert Programme, United Nations Industrial Development Organisation (UNIDO)**
- Attended UNIDO's training programme on thermal audit processes and implementations of solar thermal technology for integration into industrial processes to lower dependency on fossil fuels as a heat source.
- 08.2014 **Master's thesis: Integration of Pump Hydro Storage with a Tidal Stream Array to Achieve a Base Load, Uni.of Strathclyde, Glasgow, UK**
- Research conducted on the usage of seawater pump hydro storage as a means of obtaining a base load profile from a tidal stream array. The outcome concluded the possibility to achieve a steady base load via methods investigated in the thesis.
- 06.2014 **Master course group project: Improvement of Onsite Autonomy with A Mix of Renewable Power Generation, Uni. of Strathclyde, Glasgow, UK**
- The project involved working with an industrial partner to investigate the feasibility of making the industrial site autonomous from the grid.

Academic
Experiences
(cont')

09.2013 **Degree dissertation: Solar Cooker: Cooking Simply with a Fresnel Lens and an Oven, Uni. of Strathclyde, Glasgow, UK**

Dissertation was focused on Fresnel lens' material properties and the performance of the cooker, with comparison of different materials to be used as the oven. It was concluded that the solar cooker can store heat energy, of which can be used to cook at a later time when solar energy input is absent.

A prototype was built and tested, with collected data reviewed and analysed. The dissertation outcome proved the Solar Cooker as a feasible tool for domestic cooking.

Membership

2017 – present **University of Strathclyde Alumni Malaysia (USAM)**
Honorary Secretary

- USAM won the best alumni internationally for the year 2021

2018 – 2020 **Business Network International (BNI), Ampang Chapter**
Member, o/b BOLT Industries Sdn Bhd

2007 - 2008 **Malaysian Information Network on Disabilities (MIND), Kuala Lumpur**
Volunteer

Skills

Software Microsoft Office Suite, HeliScope, PVsyst, CRM (SalesForce)

EE management GBI, GreenRE, Green Mark, LEED

Leadership Sociable, time management, team building, flexibility

Management Decision-making, project planning, task delegation

Problem-solving Attention to detail, patience, communication

Presentation PPT presentation preparation, public speaking