







CHAN SOON YET

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STRENGTHS

- Complex problem solver
- Strong analytical & troubleshooting skill
- Conscientiousness

SKILLS

- Embedded Hardware & C Firmware Design
- Altium CAD
- PMSM Drive, LED Lighting
- RCA, CAPA
- IPC-A-610, LTSpice, Embedded C, Git, Github CI, SVN, Python, Docker, OS Scripting

LANGUAGES

English, Mandarin, Malay, Cantonese

EDUCATION

B. Eng (Hons) in Computer & Communication UKM, 2009

INTERESTS

Photography, Badminton, Ping-pong, Reading, Kart Racing

REFERRAL

Vincent Hong Soon Lee
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PROFILE

Self-motivated, solution and detail-oriented Electronics Engineering Manager with extensive experience in product development, validation and implementation phases. Strong collaborative leader delivering product as a team. Strong adherence in do it right the first time, proactive problem-solving principles.

Keen to join a company that prides itself on high standard and reputation where my skills will be utilized for the growth of the organization while moving forward with my training in this field.

EXPERIENCE

Electrical & Electronics Engineering Manager 05/2019 - 10/2020

[Big Ass Fans](#) | Shah Alam, Selangor, MY

- Led a team of 3 engineers, provided technical advices to team
- Standardized NPI design workflows, guidelines, release specifications & documentations
- Supervised & reviewed PCB/PCBA design ensured met design & cost requirements
- Performed internal DFM/DFA/DFT design review against suppliers' capabilities and IPC compliance to find the balance between size/cost/performance
- Performed sustenance engineering of commercialized products, including failure investigation (RCA/CAPA), alternative component validation and sourcing
- Advised Manufacturing department and liaised with new PCBA contract manufacturer
- Reviewed PCB/PCBA contract manufactures process matrix and reports
- Prepared specifications & DVT/PVT test plans for fan products, motors, LEDs, and auxiliary controls

Senior Electronics Design Engineer 08/2015 - 04/2019

[Big Ass Fans](#) | Shah Alam, Selangor, MY

- Ensured fan & 3ph PMSM motor designs meeting UL/CSA standards & Energy Star criteria
- Performed DFMEA, design reviews & compiled lesson learned
- NPI development for 52" BLDC ceiling fan - architected, planned, designed & tested complete multi-controller PMSM fan HW & FW with integrated LED lighting
- Oversaw PCBA functional test fixtures design, construction & maintenance
- Standardized per-product basis internal Design Validation Plan and Report (DVP&R)
- Mentored technician & established prototypes assembly workflow
- Supervised low-power handheld BT remote design
- Refactored fan system FW code achieved high modularity, extensibility & portability
- Sustaining engineering activities - product failures root cause investigation

Electronics Design Engineer 08/2013 - 07/2015

[Big Ass Fans](#) | Shah Alam, Selangor, MY

- Designed 3ph PMSM sensor-less FOC motor drives of 12V/30W & 400V/30W ratings
- Worked on 20W constant current buck LED driver & optimized illumination evenness
- Developed PMSM fan system firmware, infrared decoding & AC powerline communication signal decoding firmware
- Designed, assembled & commissioned PCBA functional test fixtures HW & FW
- Creates & maintained design libraries, improved HW design collaboration using SVN

Electronics Design Engineer 12/2009 - 07/2013

[AEX System](#) | Shah Alam, Selangor, MY

- Designed, built & validated HMI, audio, control boards for PA/VA systems
- Embedded C firmware development for HMI, voice alarm playback & audio signals routing & performed system-level integration
- Developed proprietary TDM communication protocol firmware for multidrop serial bus