

ISAIAH CHONG KAI EAN

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EDUCATION

Universiti Kuala Lumpur - Malaysia France Institute (UniKL MFI)

Bandar Baru Bangi, Selangor, Malaysia

JAN 2019 – JAN 2022

- Bachelor of Mechatronics Engineering Technology with Honours.
- CGPA: 3.89

German-Malaysian Institute (GMI)

Bandar Baru Bangi, Selangor, Malaysia

JAN 2016 – DEC 2018

- Diploma in Industrial Electronics (Mechatronics).
- CGPA: 3.86

SMK Lutong

Miri, Sarawak, Malaysia

2010 - 2014

- Sijil Pelajaran Malaysia (SPM)
- Results: 3A+, 3A, 3A-

CERTIFICATE

- SolidWorks Mechanical Design Certificate
Level: Associate

WORK EXPERIENCE

Sony EMCS (Malaysia) Sdn Bhd, Bandar Baru Bangi

Design Engineer

FEB 2022 until present

Sony EMCS is a TV manufacturer that designs, develops, and produces Television sets which are mostly LED Televisions.

Job Responsibilities:

- Develop and implement **new evaluation methods** for the first Single Chip Local Dimming LED Models at Sony EMCS for the year 2023 line-up by using MTK tools and self-developed Microsoft Excel tools.
- Conduct **Backlight evaluations and data confirmation** on Local Dimming features such as dynamic contrast, hybrid blinking and PWM delay for 4 inch sizes per batch in 3 development stages.
- Coordinate with the thermal team and **resolve arising thermal issues** such as LED hotspots and overheat bezel to complete data submission within a week ahead of deadline.
- Streamline the **Local Dimming Profile measurement process** by developing a simplified manual for future Backlight members' reference.

Sony EMCS (Malaysia) Sdn Bhd, Bandar Baru Bangi

Intern

JUL 2021 to JAN 2022

Sony EMCS is a TV manufacturer that designs, develops, and produces Television sets which are mostly LED Televisions.

Job Responsibilities:

- Conduct Backlight evaluation on LED televisions in terms of variable refresh rate and television start up sequence for approximately 4 televisions per batch.
- Evaluate Hybrid Blinking Power, Serial Peripheral Interface and Error Detection Check for Local Dimming (LD) Boards for approximately 4 televisions per batch.

- Develop automation project for capturing signal waveforms from oscilloscope using Python Programming Language.

Bintang Subsea Ventures (M) Sdn Bhd, Shah Alam

Intern

JAN 2018 to MAY 2018

Bintang Subsea Ventures is a company that provides services and equipment related to offshore survey, positioning and subsea inspection.

Job Responsibilities:

- Prepare roughly 15 tender documents per month for multiple offshore projects.
- Set-up a monthly health surveillance program in terms of blood glucose and cholesterol monitoring for all staff members.
- Carry out QHSE-related tasks such as QHSE monthly reports and workplace inspection reports.

ACHIEVEMENTS

- Student Development & Campus Lifestyle Icon Award 2020
Awarded individually as “High Performer Club President 2020: Campus Lifestyle Section” for active contributions made as Club President of MFI Badminton Club.
- The 1st ASEAN International Student Competitions (AISC)
Participated in the AISC by showcasing the “Multipurpose Hand Sanitiser” which is an innovation to increase the functionality of the regular automated hand sanitiser by adding temperature sensors, face recognition and IoT.
- National Innovation and Invention Competition Through Exhibition (iCompEx 2021)
Achieved a Gold Medal for the competition with the innovation project entitled “Vision-based Facemask Usage Detection Using Deep Neural Network-MobileNetV2 for COVID-19 Prevention Procedure”.

SKILLS

PLC Programming	CAD (SolidWorks)
Python Programming Language	C++ Programming Language
Pneumatic and Hydraulics	Electrical and Electronics
Machining (Turning and Milling)	Soldering
Microsoft Office	Communication
Punctuality	Collaboration

LANGUAGES

English – Advanced	Bahasa Malaysia – Intermediate	Mandarin – Basic	Iban – Basic
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INTERESTS

Badminton	E-Sports	Football
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REFERENCES

1. Ms. Nur Azureen Zulkifli | Lecturer | German-Malaysian Institute | nurazureenzulkifli@gmail.com | +6014-6939010
2. Mr. Fadhil Haziq Farizal | Design Engineer | Sony EMCS (M) Sdn Bhd | fadhilhaziq@gmail.com | +6017-2397393