

ケンリー KEN KEONG LEE

PERSONAL STATEMENT

After 3 years in DRAM design, I am looking for new opportunity within the realm of semiconductor circuit design. I am intrigued with the advance design tools beyond DRAM design such as Systhesis, APR, Pulsic, Analog floor planing, etc. The past 3 years in DRAM design, I was trained in various design task from design row circuitry, spice verification, layout. Through various projects, I was trained in different part of the DRAM design flow. During downtime between projects, I explored various open source circuit design projects such as Skywater, Efabless, Opensource EDA tools.

WORK EXPERIENCE

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| PERIOD | Aug 2020 ~ | |
| EMPLOYER | Zentel Japan ゼンテルジャパン | 大阪 |
| JOB TITLE | Senior Engineer 主任技師 | |
| | JEDEC compliant DRAM circuit design, mainly Spice verification. Involved in ~4 projects, including one custom DRAM project. Job scope involves from standard cells, circuit block design, verification. Job task involved layout, digital&Analog circuits. DRAM testing theory, 1C1T row/column redundancy | |
| PERIOD | Oct 2019 — March 2020 | |
| EMPLOYER | Osaka University 大阪大学 | |
| JOB TITLE | Research Assistant | |
| | Neutrinoless double beta decay, cryogenic scintillating sensor, data analytic | |
| PERIOD | July 2014 — Aug 2014 (Summer placement) | |
| EMPLOYER | Oxford Instrument | Tubney Woods, Oxfordshire |
| JOB TITLE | SEPnet Student summer placement | |
| MENTOR | Daniel Strange, daniel.strange@oxinst.com | |
| | 2 months internships, cryogenic superconducting magnet, problem solving | |

PERSONAL SKILLS

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| Language | English(native), Chinese(native), Malay(Fluent), Japanese(Business, JLPT N2), Cantonese(Conversational), |
| EDA DRAM | schematics-Virtuoso, layout-Jedat's ISMO, Calibre, spice-Finesim, pre/post RC spice, verilog pattern generation, |
| Semiconductor basic | transistors-Undergrad, Logics gates-Undergrad, circuit design-current job |
| Self Learn EDA | OpenROAD - synthesis, floorplan, APR (CTS, routing) |
| | Memory hierarchy, basic instruction set architecture |
| Programing | Python, C/C++, CAD, Labview, LaTeX, Git, Markdown |
| | Pytorch, FEA-ANSYS, KiCAD, ROOT, Geant4 |
| Experiences | Dilution refrigerator, high pressure vacuum system |
| | wire bonder, cumulative 3 months underground laboratory shift |

EDUCATION

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| PERIOD | September 2012 — July 2016 | |
| DEGREE | MPhys | |
| UNIVERSITY | University of Southampton | UK |
| | Second Class Honour(Upper Division), £12 000 scholarship tuition fee | |
| | Graduation thesis: Flavour Composition and Energy Spectrum of Astrophysical Neutrino at IceCube | |

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| PERIOD | October 2016 — March 2020 | |
| COURSE | Experimental Physics* | |
| UNIVERSITY | Osaka University | Japan |
| | *completion of studies with credits, 3 years 文部科学省 MEXT Scholarship, 6 months research assistant Bolometer development for scintillating crystal at cryogenic temperature, Unsupervised learning for data analysis, dilution refrigerator | |
| PERIOD | January 2011 — June 2012 | |
| LEVEL | Advance Level | |
| INSTITUTION | Tunku Abdul Rahman College(TARUC) | KL, Malaysia |
| | 3A*1A, full tuition scholarship, pre-university/high school equivalent | |
| PERIOD | January 2006 — December 2010 | |
| LEVEL | SPM | |
| INSTITUTION | SMK Raja Abdullah | KL, Malaysia |
| | 9A1B, O level equivalent | |

PERSONAL INFORMATION

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| DOB | 13/07/1993 |
| Nationality | Malaysian |
| Visa status | 技術・人文知識・国際業務, PR pending |
| Linkedin | uk.linkedin.com/pub/ken-keong-lee/9b/18b/885/ |
| Personal Homepage | hareyakana.github.io/cv/ |

PAST ACHIEVEMENT

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| High Achiever Award 2012 by TARC | |
| Full merit scholarship for A level studies at TARC | |
| National Physics Quiz 2010 | Bronze |
| National Chemistry Quiz 2010 | merit |
| Level 2 Certificate in Book-keeping and Accounts | 2010 |

CONFERENCES/ARTICLES/ETC.

- Phys. Rev. D 103, 092008 - CANDLES Collaboration "Low background measurement in CANDLES-III for studying the neutrino-less double beta decay of ^{48}Ca " *co-authored*
- International workshop on Revealing the history of the universe with underground particle and nuclear research 2019 Tohoku 2019 - "Development of Scintillating Bolometer for CANDLES"(Poster) *co-authored*
- JPS Autumn 2019 meeting - "Bolometer Development using Neutron Transmutation Doped Ge in CANDLES for the study of Neutrinoless Double Beta decay" *main presenter*
- TAUP 2019 - "Status of ^{48}Ca double beta decay search and its future prospect in CANDLES" *co-presenter*

PAST RESEARCH PROJECTS

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| Anomaly search through Unsupervised Machine Learning | Phd Project |
| Neutrinoless Double Beta Decay | Phd Project |
| Low temperature Bolometer Development | Phd Project |
| Dark Matter and IceCube experiment | MPhys Project |
| Neutrino Oscillations | Individual Dissertation |
| Plasmonics | Individual Essay |

VOLUNTARY EXPERIENCES

PERIOD March 2010, April 2011

PLACE Ko Bulon and Satun in Thailand

English Camp for under privileged/abused children

PAST EXCHANGE INVOLVEMENT

PERIOD 2009

PROGRAM Culture Exchange Program with Kumamoto Gakuen University Fuzoku High School, Japan

PERIOD 2010

PROGRAM Culture Exchange Program with Osaka Furitsu Minoh High School, Japan