

Nigel Tan Jin Chun



Resume

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SUMMARY

As a postgraduate data science student and a recent graduate of Electrical and Computer System Engineering at Monash University, I have a deep interest in creating impactful software and hardware solutions. My curiosity extends beyond my main discipline, making me a well-rounded team player. I look forward to applying my skills and perspectives to contribute meaningfully to your team while fully realizing my potential.

EDUCATION

Monash University	<i>Master of Data Science</i>	<i>Mar. 2025 – Dec. 2026</i>
Monash University Malaysia	<i>Bachelor of Electrical and Computer System Engineering (Honours)</i>	<i>Nov. 2020 – Dec. 2024</i>
Advanced Semiconductor Academy of Malaysia	<i>IC Design Workshop and National Semiconductor Excellence Program (NSEP)</i>	<i>Nov. 2024 – Mar. 2025</i>
Sunway College	<i>Cambridge GCE A-Levels – Grade: 4A* (Mathematics, Physics, Chemistry, Economics)</i>	<i>Mar. 2019 – Aug. 2020</i>

EXPERIENCE

StarFive Technologies International Sdn. Bhd	<i>Physical Design Engineer Partition Lead</i>	<i>Jun. 2025 - Present</i>
		<i>Kuala Lumpur, Malaysia</i>
	<ul style="list-style-type: none">Led a team in automating place-and-route flows using Cadence Innovus for RISC-V SoC designs.Optimized floorplanning, placement and routing to meet performance, power and area targets.Coordinated design verification and timing closure to ensure successful tape-out.	
Force of Nature		<i>Jun. 2025 – Jul. 2025</i>
	<i>Lead Consultant</i>	<i>London, United Kingdom</i>
	<ul style="list-style-type: none">Led a 7 member consulting team to identify youth climate skill gaps and design three new training pathways.Designed delivery models and partnership strategies to optimise program reach and effectiveness.Delivered a strategic proposal with impact measurement frameworks and scalable partnership models.	
The Malaysian SOCIAL Project – IDEAS Autism Centre		<i>Apr. 2025 – Jun. 2025</i>
	<i>Lead Consultant</i>	<i>Kuala Lumpur, Malaysia</i>
	<ul style="list-style-type: none">Led a 5 member consulting team in developing an impact measurement and reporting toolkit for a national autism center.Conducted stakeholder interviews and data workflow analysis to create SOPs and scalable reporting templates.Collaborated with a Kearney mentor to refine consulting methodologies and successfully delivered a finalized toolkit.	
SLN Sustainability Ltd		<i>Jun. 2024 – July. 2024</i>
	<i>Lead Consultant</i>	<i>Coventry, United Kingdom</i>
	<ul style="list-style-type: none">Lead a 6 member consulting team in developing omnichannel marketing strategy for a sustainable children's water bottle.Engaged with external stakeholders for insights and feedback, aligning strategies with real-world needs.Applied technical and analytical skills in software development and data management to optimize content creation.	
Keysight Technologies		<i>Nov. 2023 – Feb. 2024</i>
	<i>R&D Firmware Engineer Intern</i>	<i>Penang, Malaysia</i>
	<ul style="list-style-type: none">Led the upgrade of CLLC converter control systems, achieving efficient voltage conversion by migrating code to a newer MCU.Played a pivotal role in the development and IEC61010 standard compliance testing of a new DAQ card, enhancing safety.Standardized the calibration process for an Arbitrary Waveform Generator through detailed documentation.	

TECHNICAL SKILLS

Scripting Languages: Python, MATLAB, C, C++, C#, Verilog, SystemVerilog, Assembly, HTML, CSS, JavaScript
Tools: Design Compiler, PrimeTime, ModelSim, Quartus, VCS, ICC2, PSoC, FPGA, PSS/E, LTSpice, Git, TCL, Zsh, Bash, Linux
Development Tools: Jira, Confluence, BitBucket, BlackDuck, Scrum Development, Agile Development
Soft Skills: Leadership & Interpersonal Communication, Adaptability & Versatility, Problem Solving & Critical Thinking
Human Languages: English, Mandarin, Malay

PROJECTS

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- Integrated Circuit Physical Design Project** | Outstanding Achievement in Design Project Dec. 2024
- Led a team of 5 individuals to design and optimize integrated circuits, overseeing synthesis, implementation and timing analysis.
 - Achieved timing closure, zero design violations and enhanced quality of results.
- Simulation of On-Load Tap Changer Transformer (FYP)** | First Runner-Up Video Competition Oct. 2024
- Designed and validated a real-time simulation model for On-Load Tap Changer transformers using Typhoon HIL software, achieving first runner-up in the Video Competition.
 - Currently under review by Q1 Journal (Sustainable Energy, Grids and Networks).
- State Estimation for Voltage Control in Renewable Energy Distribution Networks** Oct. 2024
- Analyzed traditional and AI-driven state estimation methods, highlighting advancements in machine learning, deep learning, and hybrid approaches.
 - Currently under review by Q1 Journal (Renewable and Sustainable Energy Reviews).
- Puck Picking Autonomous Robot** Dec. 2023
- Led a cross-functional team of 4 individuals in the design, construction and programming of a self-sufficient robot for autonomous transportation of colored pucks and bowling pin retrieval, ensuring seamless integration of advanced localization and navigation systems.
- Hybrid Solar Lighting System** | Nominee of James Dyson Award and Springwise Article Feature Jun. 2021
- Directed a 5-member team to pioneer a solar hybrid lighting system utilizing the innovative Kanawa-Tsugi concept.
 - Earned a nomination for the James Dyson Award 2021 and a feature in Springwise Article.

PROFESSIONAL CERTIFICATION

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- Embedded Software Development with C
 - Chip based VLSI Design for Industrial Application
 - CertNexus Certified Ethical Emerging Technologist
 - Software Product Management
 - Cadence Analog IC Design Implementation and Verification
 - Cadence Digital Design and Signoff Academic Curriculum
 - Cadence Digital Design and Verification Academic Curriculum
 - MATLAB and Simulink Onramp
 - Arm Cortex-M Architecture and Software Development
 - Semiconductor Packaging – Arizona State University
 - Materials Science for Advanced Technological Applications
 - DevOps Mastery – KodeKloud
 - IBM Machine Learning
 - AWS Cloud Solutions Architect
 - Materials Science for Technological Applications
 - Intel AI Fundamentals

ACHIEVEMENTS

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- Champion of Imagine 2025
 - Outstanding Achievement in Design Project 2024
 - Cadence Student Ambassador
 - Nominee for James Dyson Award
 - Education Excellence Award
 - Monash High Achiever Award
 - Monash Leap Into Leadership Champion
 - ASEAN AYO Northeast Asia & India Competition
 - Huawei Sales Elite Challenge Finalist
 - King's Scout (Pengakap Raja)
 - National Leader Scout Award
 - Jeffrey Cheah Special Scholarship

PROFESSIONAL AFFILIATION

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- Member, Project Management Institute
 - Member, International Association of Engineers
 - Graduate Member, Australian Computer Society
 - Graduate Engineer, Engineers Australia
 - Graduate Engineer, Board of Engineers Malaysia
 - Member, National Society of Professional Engineers
 - Graduate Member, Institution of Engineers Malaysia
 - Graduate Technologist, Malaysian Board of Technologists
 - Member, Association of Computing Machinery
 - Graduate Member, The Chartered Institute for IT

EXTRACURRICULAR ACTIVITIES

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- Axiata Digital Leaders Program Cohort 2
 - University of Cologne Summer School Ambassador
 - FXB Climate Advocate Summer Program
 - Deloitte x Monash Volunteer
 - Monash Investment Analyst Program
 - Monash Alumni Mentor
 - NCGS Volunteer
 - Sunway XFarms Senior Apprentice
 - Gibbon Conservation Society Campaign Lead
 - University of Turku Summer School Participant
 - McKinsey Forward Learners Program
 - Deloitte AdvantEDGE Program
 - Tunku Abdul Rahman Foundation Mentor
 - Aspire Leaders Program Cohort 3
 - Climate Catalysts Mentorship Program
 - GrassRootsWeb Volunteer