

Nigel Tan Jin Chun

Resume

(60) 11-24215639 | tanjinchun.me | nigeltanjc@gmail.com | linkedin.com/in/tanjinchun |



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> <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.	<i>Jun. 2025 - Present</i> <i>Kuala Lumpur, Malaysia</i>
Force of Nature <i>Lead Consultant</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.	<i>Jun. 2025 – Jul. 2025</i> <i>London, United Kingdom</i>
The Malaysian SOCIAL Project – IDEAS Autism Centre <i>Lead Consultant</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.	<i>Apr. 2025 – Jun. 2025</i> <i>Kuala Lumpur, Malaysia</i>
SLN Sustainability Ltd <i>Lead Consultant</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.	<i>Jun. 2024 – July. 2024</i> <i>Coventry, United Kingdom</i>
Keysight Technologies <i>R&D Firmware Engineer Intern</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.	<i>Nov. 2023 – Feb. 2024</i> <i>Penang, Malaysia</i>

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

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

ACHIEVEMENTS

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

PROFESSIONAL AFFILIATION

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

EXTRACURRICULAR ACTIVITIES

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