

DICKSON NEOH

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DEEP LEARNING DATA SCIENTIST SUMMARY

- 10+ years of modeling deep learning-based time series and computer vision algorithms.
- 10+ years of academic journal and conference publication such as Nature, Elsevier and IEEE Transactions.
- 4+ years of helping companies deploy deep learning models into production.

WORK EXPERIENCE

Developer Advocate ZenML GmbH

July 2022 - December 2022

- Developed social media content strategy for Twitter and LinkedIn.
- Wrote blogs and gave podcasts/talks as a representative of ZenML.
- Assisted in community communication and question handling on Slack.

Lecturer Universiti Tenaga Nasional

May 2016 - November 2022

- Taught microcontroller systems and digital logic design.
- Led research on road signage identification using deep convolutional networks and LSTM for multivariate time-series recognition from humanoid robots. Developed self-supervised Transformer models for Li-ion battery charge prediction.
- Collaborated with industry partners to deploy real-time computer vision deep learning models on CPU.

Research Engineer Universiti Tenaga Nasional

May 2012 - May 2016

- Designed custom motor driver PCBs with PID controllers.
- Worked on PID controllers for PIC, Arduino, and Raspberry Pi microcontrollers.
- Prototyped and deployed pipe inspection robot with image processing for defect detection.

EDUCATION

Ph.D. in Engineering Universiti Tenaga Nasional

March 2018 - June 2022

- Investigated using deep learning models to estimate battery state-of-charge in hybrid electric vehicles.
- Conducted comparative analysis of state-of-the-art deep learning methods for SOC estimation.
- Developed a novel algorithm for accurate SOC estimation from driving patterns using self-supervised Transformer model with low error metrics, offering a promising alternative to conventional models. See the published paper on [Nature](#).

Masters of Electrical Engineering Universiti Tenaga Nasional

January 2012 - January 2015

- Studied recognizing humanoid robot behavior using Long Short-Term Memory (LSTM) networks.
- Demonstrated LSTM capability in classifying robotic maneuvers from joint angle data. See our published [paper](#) and demo [video](#).

Bachelor of Electrical and Electronics Engineering (Hons.) Universiti Tenaga Nasional

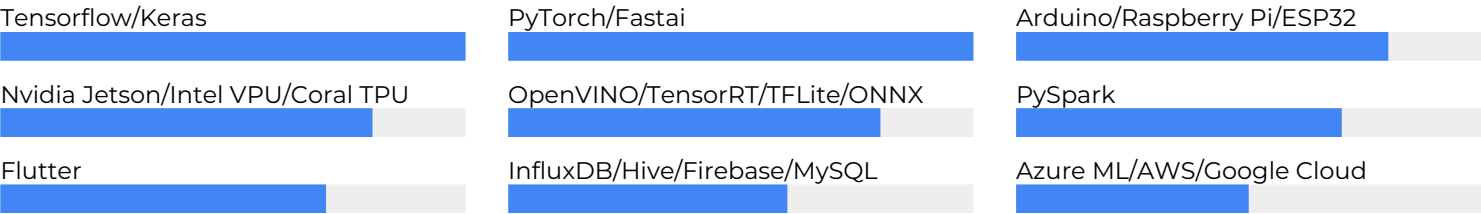
June 2007 - June 2012

- Investigated building a torque-controlled DC motor driver using PWM and PID control algorithms.

INTERESTS

Reading. Read over 100 books in the past 4 years. Most are self-development and personal health books. My favorites include Deep Work, The Cancer Code, Super Human, Deep Nutrition, Ultralearning, Atomic Habits, Quiet, Start With Why, and The 7 Habits of Highly Effective People.

SKILLS



OPEN SOURCE

- Core Developer of IceVision: An Agnostic Computer Vision Framework - <https://github.com/airctic/icevision>
- Code Contributor of TSAI: State of the art deep learning for time series and sequences - <https://github.com/timeseriesAI/tsai>
- Contributed to 19 open-source repositories on GitHub. See my GitHub [profile](#).