



Faris NAFIAH

Cambridge, UK |

+60195197822/+447796810270

nafiahfarisizzuddin@gmail.com

linkedin

| researchgate

| github

## SUMMARY

An independent and self-motivated electrical and electronics engineering PhD candidate with proven competency in data analysis, academic writing, programming and web development. Seeking to leverage skills as a part-timer to further acquire new experiences.

## EDUCATION

### LONDON SOUTH BANK UNIVERSITY, UK

Oct 2018-Present

PHD IN ELECTRICAL AND ELECTRONICS ENGINEERING

- Joint scholarship between LSBU-TWI Ltd.
- Project aims to develop engineering solution for defect detection in oil and gas pipelines.
- Research interests include engineering development, signal & image processing, and data analysis.

### INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Nov 2016- Feb 2018

MSC IN MECHATRONICS ENGINEERING

- Collaboration between IIUM and Agensi Nuklear Malaysia (Malaysian Nuclear Agency).
- Research aims to develop algorithm for crack detection using electromagnetic signals in aircraft wings.

### UNIVERSITY OF AUCKLAND, NEW ZEALAND

Mar 2013- Nov 2015

BENG. (HONS) IN ELECTRICAL AND ELECTRONICS ENGINEERING

- Receptient of MARA fast-track scholarship scheme.
- Major: signal processing and control systems.
- FYP: Control system development enabling nerve signal interpretation from fish.

## EXPERIENCE

### TWI LTD. (PART-TIME)

Oct 2019 - July 2020 / UK

ADMINISTRATIVE ASSISTANT

- Works include data scrapping, developing software solution for data bulk, and administrative report writing.

### JOHN LEWIS & PARTNERS (PART-TIME)

June 2019 - Feb 2020 / UK

MORNING CLEANING ASSOCIATE

- Early morning cleaner in a high-end department store in Cambridge.
- Maintaining high professionalism among customers whilst providing the best customer services.

### AGENSI NUKLEAR MALAYSIA

Nov 2016 - June 2018 / Malaysia

RESEARCH ASSISTANT

- Engineering solution product development and algorithm formulation.
- Designed and developed automated system for the inspection of cracks in metallic samples from aircraft wings.

### INTEL LTD.

Mar 2016 - Sept 2016 / Malaysia

GRADUATE ENGINEER

- Product development engineering.
- Developed automation platform to assist the validation plan of new product roll-out.

## SKILLS

**PROGRAMMING LANGUAGES** Python | Javascript | HTML | CSS | MATLAB | C++

**FRAMEWORKS & LIBRARIES** Jupyter | Matplotlib | Numpy | Pandas | Express.js | React.js | Node.js

**LANGUAGES** *Native:* Malay *Fluent:* English

## PUBLICATIONS

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- **Journal:** Nafiah, F., Tokhi, M. O., Majidnia, S., Rudlin, J., Zhao, Z., & Duan, F. (2020). Pulsed Eddy Current: Feature Extraction Enabling In-Situ Calibration and Improved Estimation for Ferromagnetic Application. *Journal of Nondestructive Evaluation*, 39(3), 1-8.
- **Journal:** Nafiah, F., Sophian, A., Khan, M. R., & Abidin, I. M. Z. (2019). Quantitative evaluation of crack depths and angles for pulsed eddy current non-destructive testing. *NDT & E International*, 102, 180-188.
- **Journal:** Nafiah, F., Sophian, A., Khan, M. R., Hamid, S. B. A., & Abidin, I. M. Z. (2019). Image-based feature extraction technique for inclined crack quantification using pulsed eddy current. *Chinese Journal of Mechanical Engineering*, 32(1), 1-9.
- **Journal:** Nafiah, F., Sophian, A., Khan, M. R., & Abidin, I. M. Z. (2019). Modelling of scanning pulsed eddy current testing of normal and slanted surface cracks. *Indonesian Journal of Electrical Engineering and Computer Science*, 16(3), 1297-1302.
- **Journal:** Azaman, K. N., Sophian, A., & Nafiah, F. (2017). Effects of coil diameter in thickness measurement using pulsed eddy current non-destructive testing. In *IOP Conference Series Materials Science and Engineering* (Vol. 260, No. 1, p. 012001).
- **Journal:** Nafiah, F., & Sophian, A. (2017). Pulsed eddy current imaging of inclined surface cracks. *Indonesian Journal of Electrical Engineering and Informatics (IJEEI)*, 5(4), 309-316.
- **Conference:** Nafiah, F., & Rudlin, J. (2020, July). Novel in-situ calibration routine for pulsed eddy current to eliminate insulation removal. 2020 NSIRC Annual Conference, Cambridge, UK.
- **Conference:** Nafiah, F., & Sophian, A. (2017, September). Pulsed eddy current scanning of inclined cracks. 18th International Symposium on Applied Electromagnetics and Mechanics (ISEM), Chamonix, France.
- **Conference:** Nafiah, F., Azaman, KN, & Sophian, A. (2017, September). Coil Parameter Study to Pulsed Eddy Current Non-destructive Testing. 6th International Conference of Mechatronics (ICOM'17), Kuala Lumpur, Malaysia.