Faris NAFIAH

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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

- Recepient 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

- Work includes 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 | Matplotplib | Numpy | Pandas | Express.js | React.js | Node.js

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

Publications

- ***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.