Nadia Athirah

+6011-65656797 nadzair.nadia@gmail.com Kuala Lumpur

Profile

An engineer looking for a creative outlet to apply a knack for quick learning and problem solving, while fuelled by coffee and intellectual stimulation.

Experience

TALENT SOURCING EXECUTIVE, PETRONAS – 2022-PRESENT

Applied Power BI, DAX, Power Query, and Excel tools to enhance HR processes through digitalization.

- Developed and established Staff Progression Tracking platform to promote healthy progression and mobility trend within a department and skill group.
- Developed and established Recruitment Order dashboard to enhance monitoring and reporting of recruitment within Upstream business.

ARTIFICIAL INTELLIGENCE INTERN, OFO TECH – AUG 2020-DEC 2020

Conducted image processing using Python and large-scale dataset development for object detection models in intelligent surveillance systems.

- Collaborated in a team to collect and label data, built web scrapers, and evaluated different face detection algorithm to tackle problems with model detection speed and accuracy.
- Trained a deep learning model using YOLOv4 neural network architecture with Darknet framework on Google Colab cloud GPU.

CAR BUILD INTERN, MERCEDES-AMG PETRONAS FORMULA ONE TEAM – JAN 2019-APR 2019

Assisted Build Quality Engineer to develop solutions for safe freight of car parts, assemblies, and trackside tools.

- Analysed 3D CAD models and prototypes to create packaging designs in CATIA V5.
- Designed and developed core protections for centreline coolers and radiators of race cars that accommodate design variations while ensuring optimization of cost and safety.

Education

Universiti Teknologi PETRONAS – Bachelor of Mechanical Engineering with Honours, 2021

- First Class, CGPA: 3.82
- Best Academic Award (Mechanical Engineering)
- Facilities Engineering Major with specialization in Materials Integrity and Corrosion
- Core Disciplines: Fluid Mechanics, Thermodynamics, Mechatronics, Mechanical System Design

Projects

Design Influence on Swirling Pattern in Hydrocyclones, 2021

- Customized turbulence model code in C++ in OpenFOAM 9 to simulate 3D fluid flows in liquid-liquid hydrocyclone and study the behaviour of fluid separation using CFD.
- Validated a simpler model with less computational cost for liquid-liquid hydrocyclone applications.
- Achieved improved prediction of the axial velocity compared to existing simulation models.

Languages

- English – Professional
- Malay – Native

Skills

- Python, C++ (Programming Languages)
- Fusion 360, AutoCAD, CATIA (Computer-Aided Design)
- OpenFOAM (Computational Fluid Dynamics)
- Altair (Finite Element Methods)
- PowerPoint, Excel, Power BI (Data Analysis and Visualization)
- MacOS, Windows, Linux, Raspberry Pi (Operating Systems)
- Virtual Machine & Cloud Environment
- Adobe Photoshop & Illustrator, Blender