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Electrical Engineering with Programming background fresh graduate with good technical skills. Seeking for potential job opportunities.

EDUCATION

Nanyang Technological University, Singapore	Aug 2019 – May 2022

Bachelor of Engineering (Electrical Electronic Engineering)
- Specialised in Info-Communication Engineering
  - Expected Second Class Lower Division

Nanyang Polytechnic	Apr 2014 – May 2017

Diploma in Electrical Engineering with Eco-Design
- Diploma with Merit (Top 5%)
- Director List in Multiple Semesters

ACADEMIC PROJECT

Nanyang Technology University, Singapore	May 2021 – May 2022

Final Year Project – Data Analytic for Energy Storage Safety
- Researched on Lithium Battery Remaining Useful Life
- Determined the best AI algorithm that suits for estimating State of Health and State of Charge parameters for calculating Remaining Useful Life of the Battery.
- Simulated the battery Model with Simulink.
- Python programming was used to operate Machine Learning and Deep Learning Programs

Nanyang Technology University, Singapore	May 2021 – Dec 2021

Project – Design a Website for Movie Ticket Booking
- Developed a website using HTML, CSS, Java, PHP and MySQL.
- Created algorithm to declare seats are booked.
  - Capable of pushing and editing data in Database saturated in MySQL.

Nanyang Technology University, Singapore	May 2021 – Dec 2021

Project – Design a Deep Learning Programming using TensorFlow for Cat-Dog Project
- Tasked to use Deep Learning allow the program to differentiate between Cat and Dog pictures
- Altered image size by using augmentation to fit training model ResNet50
- Created Activation layer and Loss Function for last layer of output
- High Output Accuracy of 95% is capable of differentiating cat and dog pictures.

Nanyang Polytechnic, Singapore	Oct 2016 – Jan 2017

Final Year Project – Design a program to detect obstacles around the Driverless Vehicle
- Developed a C++ Program by using Robotic Operating System (ROS) and Point Cloud Library (PCL) to obtaindata type from laser sensor
- Optimised amount of memory used for the program for other purposes
- Validated by using driverless vehicle in NYP and run the program in campus compound

INTERNSHIP EXPERIENCE

Beng Hock Mechanical Engineering Pte. Ltd   Aug 2020 – Dec 2020
Electrical Engineering Internship
- Implemented program for Self-Cleaning Toilet project using PLCNext Software
- Assisted deputy manager to improve SGBin Project
- Redesigned electrical circuit and update implemented features using Electrical AutoCAD

Singapore Technologies Engineering Ltd (Info-Comm System)   Jan 2017 – Apr 2017
Defense, Public Safety and Security Systems, Intern
- Analysed problems with engineers from other companies to improve defense of Singapore Armed Force
- Maintained and coded previous tracking systems to further eliminate errors and discomfort cause by the trackingsystem
- Managed development of the Seletar Camp installation for People Access System and Vehicle Access System
- Facilitated the teaching process on operation of system to users.

WORK EXPERIENCE

Singapore Technologies Engineering Ltd (Info-Comm System)   Jun 2017 – Aug 2017
Intelligent Transport and Mobility Systems, Contracted Staff
- Coordinated with project team to bring national level project to completion
- Analysed new configuration, plan and schedule updates for software version and data deployment
- Identified key problem areas and presented insights to supervisor for a smooth test ahead.

CO-CURRICULAR ACTIVITIES

School of Engineering Club   Jan 2015 – May 2017
Executive Communities
Freshman Orientation Human Resource In-Charge
- Analysed previous records and methods of promoting our events
- Outreached to undergraduates help an increase of 50% compared to previous years
- Entrusted to keep records of students' information by using Excel and RFID reader

SKILLS

Languages: Proficient in English and Chinese
Digital Skills:

- AutoCAD
- Electrical AutoCAD
- MATLAB
- C++
- C
- Python
- JavaScript
- HTML
- CSS
- PHP
- SQL
- Machine Learning
- Deep Learning
- Scikit-Learn
- TensorFlow
- PLC Ladder
- PLC Function Block