Nabil Ersyad Noor Eddie Putera

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Education

Bachelor of Electrical Engineering,

September 2015 - April 2019

McGill University, Montreal, QC

International Baccalaureate Diploma Program

July 2013- June 2015

Kolej Mara Banting, Banting, Malaysia

Technical Skills

Programming Languages: Java, Javascript, HTML, CSS, C, Python, ARM assembly

Software: MATLAB, Wireshark, Adobe Lightroom, MS Office Suite

Simulation Tools: SIMULINK, SPICE, Powerworld

Relevant Courses: Microelectronics – Linear Systems and Control, Power System Analysis – Telecommunication Networks – Computer Organization – Computer Vision – Design Principles and Management – Engineering Economy - Microeconomics

Work Experience

Electrical Engineering Intern

June 2017 - August 2017

Tenaga Nasional Berhad, Kuala Lumpur, Malaysia

- Largest electrical utility company in Southeast Asia. Was stationed at a district level electrical distribution planning office.
- Learnt how to read distribution maps of substations, breakers and cables for a particular area.
- Tasked to analyze and detect faults and discrepancies between power supply and demand based on given data and maps.
- Participated in planning meetings on determining and solving problems that were reported by the head technician
- Visited substation sites to observe preparation on how a substation is shut down for maintenance and how a substation is approved after completion.

Web Design October 2018 – April 2019

Airpur-FRQNT, Montreal, Quebec

- Airpur is a project founded by Prof. Ariya of McGill university, that is a collaboration between several Quebec based universities as a cluster for researching air pollution
- Tasked to design a website for the project at first by using a website builder before moving on to apply HTML and CSS to further refine the website for optimization.
- Continued to maintain and update the website as the project goes.

Video Game Localization Tester

February 2018 - May 2018

Keywords Studios Montreal, Montreal, Quebec

- One of the biggest studios in providing testing services to video game developers.
- Part of the localization testing team tasked to proofread video games that have been translated in their relevant languages
- Analyzed errors, bugs and fixing inaccurate translations of video games in Malay.

Volunteer English Teacher

June 2018 - August 2018

Colegio de San Idelfonso, Ica, Peru

- Taught English to primary school students who are native Spanish speakers.
- Lived with a Peruvian host family as part of a cultural exchange.
- Had to learn basic conversational Spanish in order to teach and communicate with the students and the family.

Office Assistant October 2016 – April 2017

McGill University Chemistry Department, Montreal, Quebec

- Tasked with documentation, archiving and disposal of department records.
- Kept track of working hours and wage payments for department staff.

Engineering Projects

Final Year Design Project, Web development

McGill University, Montreal, Canada

Web design for Turbodega, a startup founded in Montreal serving users in Peru.

Aims to integrate modern internet technology with small grocery stores based in Peru.

- In a team of 4, designed a website from scratch according to requirements set by the founders
- Chose Bootstrap as the framework for front-end development
- Used Mockito as the testing framework for the website
- Transition to back-end will involve use of nodeJS
- Coordination of time and task distribution was an important aspect
- Documented progress with regular reports and meeting minutes

School project, Lego Robot

September 2018 – December 2018

October 2018 - April 2019

McGill University, Montreal, Canada

Part of a capture-the-flag robot design project

- In a team of 3, developed hardware and software subsystems for system integration within the robot structure.
- Hardware include Lego EV3 Robot kit, Software include leJOS java library
- Optimized algorithm efficiency for real-time performance on an embedded system
- Coordinated with teammates to organize project logistics such as time, resources, and individual contributions

School project, Telecommunications Research

September 2018 – December 2018

McGill University, Montreal, Canada

A research of the quality of audio streaming applications based on internet connection type

- Captured packets of audio streams from Spotify, Apple Music and Prime Music using Wireshark
- Used Wireshark to analyze packet traces to throughput, efficiency and packet losses
- Tested for different wifi types ad also 4G connectivity

School project, Computer Vision Challenge

September 2018 – December 2018

McGill University, Montreal, Canada

Completed a challenge to write an image identification and recognition program

- Used Miovision traffic camera dataset to train the program for localization and classification
- Wrote training program using Python and the OpenCV library.
- Tested different classifiers including Support Vector Machine, Random Forest and K-nearest Neighbour
- Carried over classifiers for localization and tested effectiveness using DICE coefficients

School project, Op-Amp Design

September 2018- December 2018

McGill University, Montreal, Canada

Designed a simple functional op-amp

- Used given transistors to build amplifiers and buffers that form the different stages for an op-amp
- Tested design on SPICE before physically implementing on a breadboard

School project, Firewall design

September 2018 – December 2018

McGill University, Montreal, Canada

- Designed a simple firewall using iptables rules to accept or drop packets
- Tested on a virtual machine provided by the university