

Name

email • phone • linkedin • address

EDUCATION

Bachelor of Engineering – Electrical Engineering

Sept. 2012 – May 2019

School Name, City, Province

- **Major GPA:** 3.52 / 4.0
- **Dean's list thing 2018/19**, achieved term GPA of 3.88

PROJECTS

Project Name

Sept. 2018 – Apr. 2019

Project Description

- Designed a helical gear system and housing unit using SolidWorks for rapid prototyping.
- Programmed a stepper motor control program in C and improved the resolution with a motor driver, increasing the accuracy of the motor's position from 60% to 100%.
- Delivered fully-functioning prototype and a technical report outlining specifications, testing and results, budget summary, drawings and schematics two weeks ahead of the schedule.

Project Name

Jan. 2019 – Apr. 2019

Project Description

- Optimized the passive elements of the equalizer with Particle Swarm Optimization and Genetic Algorithm using MATLAB and yielded practical result by setting optimal parameters.
- Simulated the optimized elements using LTSpice to observe the resulting group delay. Achieved constant group delay of 6ms.

Project Name

Sept. 2018 – Dec. 2018

Project Description

- Programmed data-path for computation and finite state machine controller onto a FPGA DE-2 board in VHDL.
- Streamlined the simulation process on ModelSim by programming a test bench in VHDL to reduce simulation time.

Project Name

May 2018 – Aug. 2018

Project Description

- Designed infrared, metal detector, optical and ultrasonic sensor circuits and implemented into a 8-bit microcontroller in both hardware and software.
- Developed a wheel control program in C to match the RPM of DC motors. Resulted in 100% matching speed.

WORK EXPERIENCE

Role in Company

Sept. 2016 – Aug. 2017

Company name, city, country

- Managed and instructed classes of 10 students of varying ages and proficiency daily with self-created materials while ensuring high student satisfaction levels were maintained.
- Increased student admission by 30% by working with teachers in developing a new program curriculum.

Role in Company

Dec. 2014 – Sept. 2016

Company name, city, country

- Maintained high-performance of the assigned carrier by implementing new routine maintenance and received the best armoured vehicle award out of 24 vehicles.
- Trained 10 members of the squad in basic military training and strategies to achieve better coordination.

SUMMARY OF SKILLS

Engineering Tools: AutoCAD, SolidWorks, LTSpice, OrCAD PSpice, TINA, ETAP, MATLAB, Eagle, Microsoft Office Suite

Programming: C/C++, Python, VHDL, LaTeX

Instrumentations: Oscilloscope, Multimeters, Soldering, Function generators