

Holds a B. Sc. in Electrical Engineering and has gained some experience in design field.

PERSONAL DATA

Nationality : Egyptian
Gender : Male

EDUCATION

- : B. Sc. in Electrical Engineering, Concordia University, Montreal, QC, 2020
- : Secondary Education: Saint Fatima International School (IGCSE), Cairo, 2016

LANGUAGES

Arabic : Native Language
English : Very Good
French : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : KiCAD, PSpice, MATLAB & Simulink, Cadence OrCAD, Atmel Studio, Capella Modelling, VAPS XT, PSIM
- : Hardware: FPGA Board, Modelsim, Precision RTL, Xilinx ISE & Impact tool
- : Programming: C++, Java, Arduino, MATLAB, Python (System Optimization), VHDL

TRAINING COURSES AND CERTIFICATIONS

- : Electrical Engineer Intern at Electro George, Cairo (May 2018 – Aug. 2018):
 - Edit and review AutoCAD designs of Low and Medium Voltage Switchgears.
 - Compile and revising the material list for manufacturing and assembling Switchgears components.
 - Label wires in the assembly department.
- : Relevant Courses (during education): Circuit Analysis, Electronics I & II, Power Electronics, Flight Control Systems, Digital System Design I & II, System Optimization, Electromagnetic Waves, Realtime Computer Control System, Electrical Engineering Design Project.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2019 till Aug. 2019 (during education)
- Employer** : Bombardier Inc., Montreal, QC
- Job title** : Product Development Engineer Advanced Systems
- Job Description** :
- Modeled a mature aircraft Fuel Control System using Capella Modelling Tool applying Arcadia Methodology for system integration.
 - Took complete ownership to explore Acceleo from ground-up to facilitate the generation of XML files from Capella Models.
 - Communicated with key person to ask for Acceleo language documentation and successfully achieved the target goal.
 - Designed a Cockpit Display Systems using VAPS XT.

Graduation Project:

Electric Bike Conversion Kit Design / Electrical Engineering Design Project (Sep. 2019 – May 2020):

- Role: Team Leader, Hardware and Software Lead.
- Lead a team of 5 students to success in designing two microcontrollers.
- Responsible and supervising schematics and PCB design of microcontroller that controls a brushless DC motor.
- Responsible and supervising schematics and PCB of slave microcontroller for display screen.
- Took complete ownership of the android application (e_Wheel), that displays near real time data from the wheel.
- Compile BOM for both PCBs.
- Tools used: KiCad, Atmel Studio, Oscilloscope, multimeter, Android Studio and GitHub.

Skills:

- PCB Design.
- Engineering Design.
- Wiring Diagrams.
- Schematic Design.
- Digital Circuits.
- Power Engineering.
- Control Systems Design.
- System Optimization and Data Modelling.
- Arcadia Methodology.
- System Modelling.
- Agile and Scrum Methodology.