ca.linkedin.com/in/sadeedbari in

### **EDUCATION**

# **Bachelors of Electrical Engineering** Ryerson University

09/2014 - 04/2019

Toronto, ON

# **Deep Learning Nanodegree** Udacity

04/2018 - 09/2018

### **WORK EXPERIENCE**

## **Engineering Design Associate Intern** Celestica Inc.

04/2017 - 08/2018

Achievements/Tasks

- Performed Schematic Modeling Analysis (validation) and Hardware Review utilizing eCAD tools such as Cadence's Concept HDL, Allegro, Mentor Hyperlynx and SI-wave;
- Successfully completed 4 projects as a project leader;
- Created component models, thoroughly reviewing vendor datasheets, interpreting and extracting data;
- Produced, reviewed, and submitted 60 professional project reports to customers in a timely manner, liaising between customers and analysis team using Agile methodologies;
- Created detailed Statement of Work (SOW) documents based on customer-supplied design information;
- Performed Reliability Analysis and Component Derating review for all passive and active design components

## **Technology Associate**

TechZenik Robotics and Information Sys.

07/2018 - 08/2018

Achievements/Tasks

 Provided workshops on Game Building with Unity, 2D animation with Adobe Animate. 3D animation with Blender, supported with Arduino and Raspberry Pi workshops

## LEADERSHIP EXPERIENCE

### Chair, IEEE Ryerson University Student Branch (04/2018 - 04/2019)

Coordinated a team of 24 motivated individuals to plan and execute an array of events (academic, social, networking) for Ryerson Engineering students

#### Chair, IEEE Ryerson Electronics Chapter (04/2016 - 04/2017)

Developed and delivered weekly workshops on practical considerations in electronics, circuit applications, and microcontrollers

#### Evergreen Brickworks (04/2013 – Present)

Community Bike Hub Ambassador, Advisory Committee member

#### **SKILLS**



### **ENGINEERING PROJECTS**

ARM Cortex M3 Media Centre - C Programming

 Used MCB1700 board and uVision utilizing concepts such as RTX Real-Time scheduling, Multithreading and Conditional Executions to program a multi-purpose Media Centre in C

## Banking Application Software System - Java

Analyzed, designed and implemented a banking application using Java and JavaFX GUI software system in Eclipse IDE. Designed utilizing UML diagrams using a combination of several engineering design patterns and tested with Black box and White box testing

#### Deep Learning CNN and DCGAN Model - Python

Created a Dog-Breed classifier using Convolutional Neural Networks. Also created a program to Generate Faces using DCGAN model using Python in Jupyter Notebooks

## CMOS 2-stage Amplifier and 1-bit Full Adder - Cadence

Designed a 2-stage CMOS amplifier with compensation. appropriately sizing and characterizing all transistors using CMOS Analog IC Design. Used Digital CMOS to design and implement a 1bit Full Adder, including creating schematic, Layout Verification, and Post Layout Simulations

#### Linear Regression Modeling and Black-Box Unknown System Identification

 Used MATLAB and knowledge of Linear Regression Modeling of Modern Systems Identification to perform a successful parametric model identification and established a model to validate the results

#### **ACHIEVEMENTS**

Winner, Jet Brain's sponsored MLH Hack Harassment category, RU Hacks

Winner, 2nd Place, Major League Hacking (MLH) at UofT, www.devpost.com/SadeedBari 🗹

## RELEVANT COURSES

