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Work Experience

McMaster University (Smart Joint Monitoring Lab)

Hamilton, ON

SCHOLAR

Jan. 2016 - Sep. 2016

- · Worked with Prof. Jamal Deen to analyze gait kinematics and gait kinetics. This led to the development of a Smart Joint Methods based on adding gyroscopes, force plates, EMG, muscle force. Previous works were compared and further researched on Slavelberg, Former-Cordero estimate 3D ground reaction forces (GRFs) and optimal placement of accelerometers.
 - Gait analysis, accuracy and reliability of Smart Joint Methods & Optimal Sensors Placement
 - Collating selection of approaches such as Bro, Intille and Gjoreski

SDI Marketing (TMS) Newmarket, ON

MANAGER & LEAD ADVISOR

Sep. 2015 - Present

- · To manage and oversee the operations of multiple stores following superior-rated performance. Developing and performing incentives and training for District's employees & lead advisors
 - Multiple award winner for top performance
 - Generating a 300% growth in revenue
 - Reversed store's downward spiral
 - Earning a reputation for effective leadership under ambitious deadlines

Education

Ryerson University Toronto, ON

M.Eng. in Electrical and Computer Engineering

Aug. 2016 - Present

Shahid Beheshti University (former National University of Iran)

Tehran, Iran

B.S. IN FLECTRICAL AND COMPUTER ENGINEERING

Sep. 2010 - Jan 2015

Research Experience

Ryerson University MASTER OF ENGINEERING AT EE DEPARTMENT

Toronto, ON

Sep. 2015 - Present

· Prediction models for digit recognition, car acceptability, wine quality, & water level

Advisor: Prof. Farah Mohammadi

- Modeling and simulating with MATLAB on different real world datasets
- Creating a Neural Network, SVM Prediction Model, K-means clustering for Image dimensionality reduction
- · Lines, & circles detection in noisy environment with 5 pixels accuracy

Advisor: Dr. Lev Kirischian

- Blurring Process, Edge detection, Hough transform algorithms, and etc with OpenCV
- Comparison of Hough transform, Fast, Random hough transform, and Efficient randomized algorithm
- Architiectural Synthesis Course Project: Architecture analysis and high-level synthesis of ASP of a VOP buffer Advisor: Dr. Lev Kirischian
 - Analyze the fully pipelined variant of architecture to get the highest performance of ASP

 - Assess the economic aspects, power consumption, and VOP area, determined by the available memory bandwidth
- · Digital System Testing Course Project: Reliability evaluation and build in self repair of reconfigurable FPGAs Advisor: Prof. V. Geurkov
 - Reliability analysis & comparision of Hierarchical redundancy, Optimal repair, Coarse redundancy, Tile-based repair models
 - Analyzed combinational and sequential circuit test generation methods. Memory, delay testng, and testability design methodology
- · Embeded System Course Project: Hardware-software codesign, DE2-Altera FPGA based, and Nios II SoPC Development Advisor: Prof. Gul Khan
 - Multitasking ARM Applications by using uVision and RTX, realtime scheduling and investigate RTOS using ARM Cortex M3

RESEARCH ASSISTANT AT ELECTRONICS LAB

Jan. 2012 - Jul. 2015

- The Bachelor Final Project: Designing, simulating and implementing CMOS amplifier with Beta-Multiplier Reference Advisor: Prof. Hashemipour
 - High gain low noise CMOS amplifier design with a BMR utilizing Positive close loop feedback, Novel Cascade Currant Mirrors
- · Designing and implementing a ZigBee OEM Module Starter

Advisor: Prof. Jalali

- Designing, optimizing, and implementing a ProBee ZE10 Starter using ARM Cortex M3
- Sigma-Delta AD Converters analysis, the highway traffic measurment analysis using GPS mobile devices

Skills_

Programming C/C++, C#, Python, MATLAB, JAVA, VHDL, Verilog, LaTeX

Robotic Programming Tools ROS (Robot Operating System), OpenCV

Analog Digital Design Tools H-Spice, P-Spice

Smart Phone Programming iOS (Swift), Android (JAVA)

Microcontrollers AVR, ARM, FPGA, PLC
PCB Layout Altium Designer

Honors & Awards

2018	1st Place , TMS, Certified for top revenue improvement, Eastern Canada	GTA, ON
2017	1st Place, TMS, Certified for top leadership, Eastern Canada	GTA, ON
2010	Ranked Top 1%, Mathematics and Physics among more than 178,000 students in Iranian nationwide	Tehran, Iran
	university entrance examination (Konkoor).	reman, nan
2008	Accepted, Iranian National Olympiad Competition in Mathematics	Tehran, Iran

Test Scores_____

IELTS Academic CA265

Score: 7.0 Mar. 2016

• Writing (7.5/9), Listening (7.5/9), Speaking (6.5/9), Reading (5.5/9)