Zeyad Saleh

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EDUCATION

MCGILL UNIVERSITY
BEng in Computer Engineering, Biomedical engineering minor
Expected Dec 2017 | Montreal, QC
Cum. GPA: 3.62/4
Golden Key International Honor Society member

COLLÈGE DE LASALLE
Grad. June 2013| Cairo, Egypt

LINKS

Github:// **zeyadhazem**
LinkedIn:// **zeyadsaleh**
YouTube:// **zeyadhazemsaleh**
Twitter:// **@zeyadhazem**

COURSEWORK

UNDERGRADUATE
Operating Systems + practicum
Artificial Intelligence + practicum
Digital System Design + practicum
Telecommunication + practicum
Signals and Systems
Database Systems + practicum
Microprocessor Systems + practicum
Computer Architecture + practicum

SKILLS

PROGRAMMING
Over 5000 lines:
Java • C • C++
Over 1000 lines:
MySQL • VHDL • Swift • labView
Familiar:
Shell • Assembly • Python • HTML • CSS • JavaScript

SPOKEN LANGUAGES
Arabic • English • French • Spanish

TOOLS
Wireshark • ROS • LogicWorks • Adobe After Effects • Adobe Photoshop • Autodesk 3Ds Max

EXPERIENCE

CAE | Avionics Systems Intern
May 2016 – Sep 2016 | Montreal, QC
- Integrated Garmin Load Updates and OEM packages on CAE's Embraer Phenom 100/300 aircrafts' virtual simulators.
- Used Wireshark and other internal tools to trace packets sent via HSDB.
- Working in a fast paced Agile Scrum Environment.

HIGH PERFORMANCE COMPUTING LAB | Researcher
Jul 2015 – Sept 2015 | Ashburn, VA
Ported and optimized benchmarks from C and openMP to Chapel and tested their time performance on the lab's Linux servers. Generated a report for submission.

SHARED REALITY LAB | Undergraduate Researcher
May 2014 – Aug 2014 | Montreal, QC
Created a Java program that connects 2 rooms auditorily with a simple GUI that allows each user to control the quality of information they want to convey to the other end by analyzing and manipulating real time audio data from the microphone.

PROJECTS

SONO | Design Project
Sept 2016 – Present | Montreal, QC
- Building an iOS app that classifies emotions through physiological signals using machine learning.
- The app collects, displays and uploads physiological signals from Empatica's E4 wristband to dropbox. It also transforms these signals to biomusic in real time.

DRIVE SAFE | WearHacks
Oct 2015 | Montreal, QC
- Built an Android app that uses the Muse headband and pebble watch to monitor the brain activity of truck drivers and alert them in times of sleepiness.
- The data is stored in a database to build a complete profile of each driver.

MARS ROVER | McGill Robotics
Sept 2014 - Dec 2015 | Montreal, QC
- Established the RS485 communications protocol governing communication over the drive system, arm, servo, battery controllers and end effectors in C.
- Using ROS and C++ to compute FK and IK equations

MOONWALKER | Project Manager
Feb 2015 - Apr 2015 | Montreal, QC
- Constructing and autonomous robot using Java and Lego Mindstorms.
- Implemented the algorithms for the light sensor localization and odometry.

AWARDS

2016	National Finalist	Infiniti Engineering Academy
2015	top 10 hacks	Wearhacks, Drive Safe Application
2015	Best App of Analytics	Wearhacks, Drive Safe Application
2015	$4^{th}/25$	Microsoft Coding Competition, McGill University
2014	$3^{rd}/40$	European Rover Challenge (McGill Robotics)
2014	$3^{rd}/40$	Static Judging, AUVSI (McGill Robotics)