

# 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

## LINKS

Github:// [zeyadhazem](#)  
LinkedIn:// [zeyadsaleh](#)  
YouTube:// [zeyadhazemsaleh](#)  
Twitter:// [@zeyadhazem](#)

## COURSEWORK

### UNDERGRADUATE

Operating Systems + practicum  
Artificial Intelligence + practicum  
Digital System Design + practicum  
Computer Architecture + practicum  
Embedded Systems + practicum  
Telecoms & Networking + practicum  
Database Systems + practicum  
Microprocessor Systems + practicum

## SKILLS

### PROGRAMMING

Over 5000 lines:

Java • C/C++

Over 1000 lines:

Python • MySQL • VHDL • Swift •  
labView • HTML • CSS

Familiar:

JavaScript • Shell • Assembly

### SPOKEN LANGUAGES

Arabic • English • French • Spanish

### TOOLS

Wireshark • ROS • Xcode • LogicWorks •  
Adobe After Effects • Adobe Photoshop •  
Adobe Premiere • 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.
- Working in a fast paced Agile Scrum environment to deliver the project on time
- Introduced meeting minutes to the team
- Updated the team's Sharepoint website's structure and layout to meet new accessibility requirements.

### 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.

### SHARED REALITY LAB | UNDERGRADUATE RESEARCHER

May 2014 – Aug 2014 | Montreal, QC

Created a Java program that connects 2 rooms auditorily with a simple GUI allowing each user to control the quality of information to convey to the other end.

## PROJECTS

### SONO | DESIGN PROJECT

Sept 2016 – Present | Montreal, QC

An iOS app that uses machine learning to classify emotions through physiological signals, while transforming these signals to biometric in real time.

### DRIVE SAFE | WEARHACKS

Oct 2015 | Montreal, QC

An award winning 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 app builds complete profiles with productivity levels for each driver.

### MARS ROVER | MCGILL ROBOTICS

Sept 2014 - Dec 2015 | Montreal, QC

An award winning Mars Rover. Established the RS485 communications protocol governing communication over the drive system, arm, battery controllers and end effectors in C. Used ROS and Python to compute FK and IK equations for arm control.

### MOONWALKER | PROJECT MANAGER

Feb 2015 - Apr 2015 | Montreal, QC

An autonomous robot with Java and Lego Mindstorms. Implemented the algorithms for the light sensor localization and odometry. Created and updated a Gantt Chart.

## 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 <sup>th</sup> /25	Microsoft Coding Competition, McGill University
2014	3 <sup>rd</sup> /40	European Rover Challenge (McGill Robotics)
2014	3 <sup>rd</sup> /40	Static Judging, AUVSI (McGill Robotics)