

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 in **C++**.
- Worked in a fast paced **Agile Scrum** environment.
- Used **JIRA** for issue tracking and successfully **closed 92% of my snags** on time.
- Updated the team's Sharepoint website's structure and layout.
- Successfully delivered the project to the client at the end of my internship.

HIGH PERFORMANCE COMPUTING LAB | RESEARCHER

Jul 2015 – Sep 2015 | Ashburn, VA

- Ported and optimized parallel benchmarks from **C** and **openMP** to **Chapel**.
- Created **sbactch job files** and submitted the programs to the lab's Linux servers via SSH to compare their time performance.

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 into **biomusic** 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 **stores** complete profiles with productivity levels for each driver.

MARS ROVER 🏆 | MCGILL ROBOTICS

Sept 2014 - Dec 2015 | Montreal, QC

An award winning Mars Rover. Implemented the **RS485 communications protocol** in **C** governing communication over the different subsystems of the rover. 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 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)