Zeyad Saleh

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EDUCATION

MCGILL UNIVERSITY

BENG IN COMPUTER ENGINEERING, BIOMEDICAL ENGINEERING MINOR Expected Dec 2017 | Montreal, QC Cum. GPA: 3.6/4 Golden Key International Honor Society

LINKS

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

COURSEWORK

UNDERGRADUATE

OS + practicum
AI + 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:

JavaScript • Java • C/C++

Over 1000 lines:

HTML • CSS • Swift • Python • MySQL

• VHDL • labView

Familiar:

Shell • Assembly

SPOKEN LANGUAGES

Arabic • English • French • Spanish

TOOLS

Wireshark • JIRA issue tracker • ROS • Xcode • LogicWorks • Adobe After Effects • Adobe Photoshop • Adobe Premiere

EXPERIENCE

DDMAL LAB | Undergraduate Research Assistant

May 2017 - Current | McGill University, Montreal, QC

Building an open source layering plugin, Pixel.js on top of Diva.js using JavaScript ES6 to provide the ground truth data for OCR. Implemented the following features:

- Tools: brush, eraser (with size control), rectangle and grab.
- Layers: creation, destruction, renaming, colour and opacity control.
- Exporting: as CSV, colours PNG or image data PNG, export progress animation.
- Others: undo/redo actions, performance optimization, reproducing JS internal drawing functions to get all pixels spanned by shapes and paths.

Implemented all features in 2 months with no prior knowledge in web development.

CAE | AVIONICS SYSTEMS INTERN

May 2016 - Sep 2016 | Montreal, QC

Integrated Garmin Load Updates and OEM packages on two Embraer Phenom aircrafts' virtual simulators **in C++**. Worked in a fast paced **Agile Scrum** environment.

HIGH PERFORMANCE COMPUTING LAB | RESEARCHER

Jul 2015 - Sept 2015 | GWU, Ashburn, VA

Ported and optimized parallel benchmarks from **C** and openMP to **Chapel**. Analyzed the time performance of the programs on the lab's supercomputers.

SHARED REALITY LAB | Undergraduate Researcher

May 2014 - Aug 2014 | McGill Universty, 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 analyze the brain activity of truck drivers and alert them in times of sleepiness.

MARS ROVER | McGILL ROBOTICS

Sept 2014 - Dec 2015 | Montreal, QC

Implemented the **RS485 communications protocol in C** governing communication over the different subsystems of the rover. Used **ROS** and **Python** 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

2015	top 10 nacks	vvearnacks, 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)