

Maytham Sabbagh

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EDUCATION

2012 – 2017 **BEng. Electrical Engineering. Co-op**
GPA: 11.04/12, A
Carleton University, Ottawa, Canada

WORK EXPERIENCE

MAY 2017 – PRESENT

Software Engineer, 6500 Platform Base
Ciena Canada Inc.

Design, implement and test Linux Kernel Loadable Modules (KLMs) and drivers for FPGAs and ethernet socket packet handling, userspace flash programming and product release upgrade libraries, factory reset and system cleanup scriptware. Support the Integration Testing, Product Verification, Systems Engineering and others internal hardware users in the analysis of issues, rerouting and service tickets and recovery of hardware systems. Support in the creation of factory production procedures and release lineups for the Control Modules of the 6500 RLS product. Support the team with their day-to-day problems with the use of git version control system. Support in the hiring and mentoring of new graduates on the team.

MAY 2015 – AUGUST 2016

LTE Software Integrator Co-op
Ericsson Canada Inc.

Tested and integrated LTE basestation software, designed and implemented scripts to handle software installation and basestation configuration, implemented code dump analysis software to decode crash dumps, implemented Google test framework for unit testing of an LTE software subunit, and worked on software submission management.

PROJECTS

SEPTEMBER 2016 – PRESENT

UI Hardware/Software Designer

Shifty: Automatic Bicycle Transmission System, Carleton University 4th Year Project (SYSC4907)

Responsible for designing hardware using STMicroelectronics MCU with a GPS, SD card connection, external RAM, and SPI connection to an NRF bluetooth chip. Designing embedded multithreaded software that manages the user interface, allowing the user to customize the unit, including dynamic SD card logging, with interrupt, request-response based support to communicate with a 2nd MCU.

SEPTEMBER 2015 – JUNE 2016

Electrical Design Team Member

Carleton Raven Knights CanSat Competition Team

Designed container hardware which handled ascent and release of payload, designed embedded software to collect, store and manage data, responsible for code review and bug fixes for main software including telemetry transmission, camera request transmission and image transmission, state transition and sensor collection. Achieved 2nd place out of 70+ teams from 10+ different countries.

SEPTEMBER 2014 – JUNE 2015

Software Design Team Member

Carleton Raven Knights CanSat Competition Team

Designed embedded software on a Cortex-M0+ to collect store and manage data from sensors placed on the satellite, and designed an I²C driver to allow for easy integration of sensors. Achieved 3rd place out of 60+ teams from 11 different countries.

NON-TECHNICAL

OCT 2015 – OCT 2017

Chair

Communications and Publications Committee, IEEE Ottawa Section

NOV 2015/OCT 2016

Master of Ceremony

IEEE Ottawa Section AGM

MAY 2015 – APR 2016

Chair

IEEE Carleton University Student Branch

JAN 2016

Master of Ceremony / Organizer

Student Professional Awareness Conference 2016

JUN 2014 – FEB 2015

Executive Director

BattleRoyale 8; Ottawa's largest 24 gaming LAN event

JAN 2015

Organizer

Student Professional Awareness Conference 2015

COMMUNICATION SKILLS

ARABIC Native

ENGLISH Fluent

TECHNICAL SKILLS

PROFICIENT C, C++, git, Linux, Java

INTERMEDIATE \LaTeX , HTML, CSS, Eagle, MATLAB, Bash, Keil, CodeWarrior

BASIC MS-DOS, Assembly, Javascript, PHP, MySQL, CMSIS-RTX RTOS