Maytham Sabbagh

WORK EXPERIENCE

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 I^2C driver to allow for easy integration of sensors. Achieved 3rd place out of 60+ teams from 11 different countries.

JANUARY 2015 – APRIL 2015

Hardware/Software Design Member
3rd Year Electrical Eng. Project

Designed a mini vehicle with autonomous behaviour that is capable of following other vehicles, used IR sensors, ultrasonic range finders, I^2C GPIO expanders and motor drivers to enable the vehicle to detect others.

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EDUCATION

2012 – EXP: 2017	**BEng. Electrical Eng. Co-op**
	GPA: 11.05/12, A
	Carleton University, Ottawa, Canada

EXTRACURRICULAR

OCT 2015 – PRESENT	**Chair**
	Communications and Publications Committee, IEEE Ottawa Section
OCT 2016	**Master of Ceremony**
	IEEE Ottawa Section AGM 2016
MAY 2015 – APR 2016	**Chair**
	IEEE Carleton Student Branch
JAN 2016	**Master of Ceremony / Organizer**
	Student Professional Awareness Conference 2016
NOV 2015	**Master of Ceremony**
	IEEE Ottawa Section AGM 2015
JUN 2014 – FEB 2015	**Executive Director**
	BattleRoyale 8; Ottawa's largest 24 gaming LAN event
MAY 2014 – APR 2015	**Technical Director / Acting Vice Chair**
	IEEE Carleton Student Branch
JAN 2015	**Organizer**
	Student Professional Awareness Conference 2015

COMMUNICATION SKILLS

ARABIC	Native
ENGLISH	Fluent

TECHNICAL SKILLS

PROFICIENT	C, C++, git, Linux, Java, Eclipse
INTERMEDIATE	LaTeX, HTML, CSS, Eagle, MATLAB, Bash, Keil, CodeWarrior
BASIC	MS-DOS, Assembly, Javascript, PHP, MySQL, CMSIS-RTX RTOS