# Lianne de la Salle
# Junior Software Engineer

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## Profile

- Passion for software development and technology
- Diversified work experience as a software engineer, a hardware engineer, and program manager
- Experience in private, public, and academic institutions
- Experience with Javascript, HTML, CSS, SQL, Python, C++, C, QML, Git, Virtual Machines, Arch Linux, Networking, Cyber Security
- Avid software developer and maker involved in community projects, open source, and self directed learning (uOttawa Makerspace, Science Travels, freeCodeAcademy, Tech4Good Ottawa, Random Hacks of Kindness)
- Fully bilingual, native French and English (written and oral)

## Work Experience

**Software and Hardware Engineer**
October 2018 – November 2019

**Employer:** CCX Technologies

Working with the small team at CCX Technologies, I designed, built, and tested cyber security software and custom built avionics routers. This diverse role included; software design and testing, schematic and PCB design, and product build, verification, and testing.

**Makerspace Coordinator**
September 2016 – April 2017

**Employer:** University of Ottawa - Makerspace

As the Makerspace Workshop coordinator, I designed and facilitated workshops on a variety of technology subjects and equipment. This role included learning and developing workshops on new technologies including IoT, 3D modelling software, VR, among others.

**Protection Control Engineer**
January 2016 – April 2016

**Employer:** Hydro One

As a protection and control engineer I worked primarily in the field, completing maintenance on testing instrumentation, updated engineering drawings to reflect field conditions, and addressed problems at various substations. I consistently applied rigorous safety standards when working in high voltage environments.

**Research Assistant**
May 2014 – August 2016

**Employer:** University of Ottawa – SUNLAB Solar Research Lab

As a research assistant in the SUNLAB, an advanced solar research group at the University of Ottawa, I worked on a variety of projects related to solar energy research. A large project, which resulted in two publications and a conference proceeding, entailed managing and analysing a five-year solar radiation database which is now freely available for other researchers for solar energy research.

**Systems Engineer**
May 2013 – November 2013

**Employer:** General Dynamics Canada

At General Dynamics, as part of the systems engineering and software test teams, I worked on system design documentation, analysed problem reports, and completed software test cases.

## Projects

**Website Project**
August 2019

**Client:** Ottawa Mental Health Friendship Support Group Organization Page

As a volunteer project I made a landing page for the Ottawa Mental Health Friendship Support Group.

http://friendshipsupportgroup.ca/

**Application for non-profit**
April 2019

**Client:** CompuCorps

As part of the hackathon, Random Hacks of Kindness, with a team of volunteers, we built a Meteor application for the compuCorps website to better process donations.

https://gitlab.com/compucorpsmentoring/intap

**Let's Talk Science – Science Travels**
March 2017 – June 2017

**Client:** Science Travels

I facilitated the Makerspace-Science Travels partnership to enable the first technology workshops run with Science Travels. Science Travels is a program running workshops in remote aboriginal communities in northern Ontario, Quebec, and Nunavut in the areas of science and technology. After designing and tailoring the technology workshops specifically for our client schools, I joined a group of volunteers on a week-long science and engineering outreach trip to remote and isolated northern Ontario aboriginal communities.

## Education

Bachelor of Applied Science, Electrical Engineering (Magna Cum Laude), University of Ottawa 2017

**Awards :**
- Professional Engineers of Ontario's Student Papers Night Best in "The Social, Environmental and Humanitarian Implication" Category
- 3rd Place in Pitch-an-App Contest 2017 by CREATE-BEST for App idea "Health Hood - Connecting low income people with community resources"

**Publications :**
- Multi-year Ground-based Irradiance Dataset in a Northern Urban Climate  (2016)
- Multi-year Ground-based Irradiance Dataset in the Ottawa Region (2016)
- Refractive concentrator optics architectures, tracker precision, and cumulative energy harvest (2015)