

# Tristan Saumure Toupin

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## Objectives

Make use of my skills and experience in programming and software architecture in an engineering environment during a 4 months internship in the summer of 2017.

## Education

- 2015–present **B. Eng. Software engineering**, *Mcgill University*, Montreal.  
2013–2015 **DEC Science de la Nature**, *Cegep de Valleyfield*, Salaberry-de-Valleyfield.

## Experience

- Summer 2015–2016 **Préposé aux cuves (Tanks attendant)**, *Zinc Électrolytique du Canada Limitée*, Salaberry-de-Valleyfield.  
Monitored and optimized the efficiency of zinc production by controlling temperatures of the 204 tanks of electrolyte through interventions and procedures using manual tools.  
2013–2015 **Floor clerk and cashier**, *Pharmacie Brunet Valleyfield*, Salaberry-de-Valleyfield.  
Helped customers with any of their problems and questions. Received, stored, and issued sales floor merchandise.


## Languages

- French (Native)
- English (Fluent)
- Spanish (Reading knowledge from 2 years of classes in highschool.)

## Technical skills

- Languages JAVA, C, BASH, CSS, CSS3, HTML5, Javascript and jquery, Latex, Arduino, MIPS Assembly, MatLab  
Softwares Github, Slack, Eclipse, AutoCAD, Inventor, Lightroom, Photoshop, Microsoft Suites Office, Shopify, MatLab, Arduino  
Operating Systems Linux (Debian, Ubuntu, Kali) (since 2016), OS X (since 2015), IOS (since 2013), Android (since 2011), Windows (since 2002)

## Personal & Academic Projects

- 2016–present **Door lock**, Designed and built a lock for my apartment front door based on an Arduino system using RFID technologies.  
Summer 2016 **Sweetknd.com**, Built a business website dedicated to selling handcrafted women's accessories using Shopify as back end for the transactions.  
Fall 2016 **Chatbot**, Programmed a chatbot in python. Answers from the chatbot were based on a book provided.  
Winter 2016 **Base Converter**, Programmed a numerical base converter that could take bases between 2 and 60 in Java.  
Fall 2016 **Autonomous robot**, *Software manager*, Winner of the McGill robot competition among 135 students.  
 In teams of eight, we built an autonomous robot capable of finding and manipulating Styrofoam blocks, while navigating within an enclosed area populated with known obstacles placed within a 12' x 12' enclosure. Designed, organized the software architecture and coded in Java of the whole project.

## Volunteer Work

- June 2011 **Canadian Cancer Society**, Transcribed and organized the registrations of all participants for the Relais pour la vie.  
January 2013 **Costa Rica**, Painted, cleaned and restored a public school in a small town outside of San José in order to provide an adequate environment for the children to learn.