# FORMATION

Abderrahmane Djerourou

6087 rue Despréaux, Saint Léonard, H1S 1E7 (514)377-4081 | [abderrahmane.djerourou@gmail.com](mailto:abderrahmane.djerourou@gmail.com)

**Languages: French & English**

## Bachelor’s degree in Automated Manufacturing Engineering 2020

*École de technologie supérieure - Montreal (Quebec)*

## Technological Academic Path 2014

*École de technologie supérieure - Montreal (Quebec)*

## College diploma in Pure and Applied Science 2013

*Collège de Maisonneuve - Montreal (Quebec)*

# SOFTWARE KNOWLEDGE

*Conception:* SolidWorks 2014, Solid Edge st10, Arena, ThingWorx Manager.

*Programming:* Visual Studio 2010, RSLogix5000, Studio 5000, eWON (basic), Matlab, HTML.

*Office:* Microsoft Office (Word, Excel, PowerPoint, Outlook, Project), Abode Photoshop, WordPress (Webpages creation).

# JOB EXPERIENCES

**Intern (Industrial Engineering)** Summer 2019

Wilton Aluminum

Job Tasks:

* Establish a new production and assembly line at the factory.
* Find and contact suppliers of new machines for the production line.
* Analyze production lines and suggest improvements.
* Design safety guards for factory’s hydraulic presses.

*Skills Developed:*

* Acquire practical knowledge of industrial safety measures.
* Learn and master the AutoCad 2D design software.
* Simulation of production lines with Autocad Arena software.

Results:

* Purchase machines for the new production line.
* Design the new production line.
* Design of 2D and 3D safety guards’ production plans designed for each press.

## Abderrahmane Djerourou| (514) 377-4081

**JOB EXPERIENCES**

**Project management** Winter 2018

Les Moulins de Soulanges

Job Tasks:

* Program Key Performance Indicator applications (KPI) with software Excel 2010 Visual Basic for Applications (VBA).
* Evaluate project costs and compare submissions.

*Skills Developed:*

* Acquire practical knowledge in KPIs.
* Learn and master VBA.

Results:

* Program 7 different VBA applications.
* Develop a production plan for a Gluen-free flour project.

**Trainee in Automation** Summer 2017

Qualtech Solutions Job Tasks:

* + Program an email application for preventive maintenance with Logix Designer.
  + Installation, tests and start-up of the email application for interested customers.

*Skills Developed:*

* Expand skills with Logix Designer and RSLogix 5000.
* Develop knowledge in the various communication protocols in the IT network (SMTP, FTP, DNS).

Results:

* Successful sending of an email from the controller through an external SMTP server.
* Application in the PLCs of 3 different factories.

# STUDY PROJECT

## Graduation project IOT (Internet of Things) Winter 2020

## Alithya

## Job Tasks :

* + Visualize the evolution of sensor data (humidity, temperature) with real-time charts.
  + Use of machine learning algorithms to predict engine failure based on past data.
  + Use anomaly detection to detect anomalous variations in the inputs.

*Skills Developed:*

* Acquire practical experience on the Internet of Things using the ThingWorx platform.
* Learn the basics of machine learning and artificial intelligence.
* Work in a multidisciplinary team (electrical and system engineering).