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**SUMMARY**

*Data Analyst with a background in Mechanical Engineering. Currently completing the Data Analytics program at the University of Toronto to develop and refine my skills in Python, SQL, HTML, JavaScript among many other tools. I enjoy developing and implementing process improvement activities, as well as making well informed decisions based on relevant and accurate data.*



**TECHNICAL SKILLS**

|  |  |  |  |
| --- | --- | --- | --- |
| ***DESIGN TOOLS*:**   * SolidWorks * AutoCAD * PSPICE (Circuit Design) * ANSYS Workbench * Minitab | ***CODING:***   * Python * JavaScript * SQL/MongoDB * SQLAlchemy * VBA * HTML/CSS * MATLAB | ***SOFT SKILLS:***   * Team work and coordination * Written and verbal communication * Bilingual in French |  |



# EDUCATION

# Data Analytics Bootcamp

***University of Toronto –* Graduating July 2019**

**Bachelor of Applied Science and Engineering**

***University of Toronto -* Graduated June 2018**

*Department of Mechanical and Industrial Engineering with a minor in Business*



# PROFESSIONAL ENGINEERING EXPERIENCE

**PRODUCTION ENGINEERING INTERN,** *REFCO Metals (refcometals.com)*  **Manufacturing of automotive aluminum parts (Jaguar, Jeep, Land Rover) July 2016 – July 2017**

* Factory Improvement Projects
* Created a digital Request For Service database generating reports on downtime and quality data for upper management
* Generated & implemented Standard Operating Procedures
* Optimized cell layouts and cycle times based on production data as to meet client quotas
* Optimized operator to production cell ratio as to maximize man power efficiency
* Inter-departmental coordination
* Represented the Production Engineering team in 8D Quality meetings
* Identified quality defect root causes and took appropriate steps to eliminate the problems
* Planned factory tools for contractors & prospects based on downtime reports, tool quality and life-cycle

**DATA ANALYTICS PROJECTS**

**Request for Service (RFS) deployment,** *Excel*

***Team Member November-December 2016***

* Build excel database containing all employee names sorted by departments and relevant manufacturing projects
* Set limitations on data logging to minimize errors, and set up daily backups
* Wrote a VBA script to generate downtime, quality and production reports for various departmental managers to assist in decision making

**Chicago Crime Analysis,** *Python, Excel*

***Team Member March 2019***

* Analyze impact of socio-economic factors on Chicago’s crime rates
* Predicted crime rates based on historical data

**Drug Side Effect App,** *Python*

***Team Member April 2019***

* Developed basic code to return a list of non-compatible side-effects based on drug active ingredients and lifestyle data
* Future steps include creating a user interface, acquiring more drug data from various nations and deploying as fully functional application

**VBA of Wall Street,** *VBA (Visual Basic)*  ***April 2019***

* Wrote a VBA script to return yearly performance summaries for hundreds of Wall Street stocks
* Color-coded performance for better visual representation of reports

**Toronto Parking Tickets Website/App,** *Python, JSON, SQL* ***April 2019***

* Extracted, cleaned and loaded City of Toronto parking ticket data for the year 2018 into a SQL database
* Built a heat-map highlighting parking fine distribution in the city of Toronto
* Filtered and displayed data based on user input, and generated relevant analysis
* Next steps include implementing machine learning to develop a model that would predict the city’s revenue and the most common type of fines based on historical data

# ENGINEERING PROJECTS

**Personal Urban Mobility Access (PUMA),** *General Motors/University of Toronto*

***Team Member September 2017 – April 2018***

* Design of a lightweight, portable, short range vehicle
* Compile detailed engineering reports highlighting key design features and requirements
* Present conceptual design to international colleagues and faculty in Beijing, China
* Manufacture & present prototype to the client, faculty and other industry leaders

**Optimizing Jeep Production Cell Layout,** *REFCO Metals*

***Team Member May 2017 – June 2017***

* Reduce production cycle times as to meet production quotas
* Compile new work instructions and train operators accordingly
* Reduce number of operators in production cell
* Design new layouts to maximize space efficiency and reduce travel distance