# Marek Niewiadomski

linkedin.com/in/marek-niewiadomski
niewiadm@uoguelph.ca | 226.500.3552 | mniewiadomski.com

## SKILLS

### PROGRAMMING

- Proficient in C#, SQL, VisualBasic, C, Parker IQAN,and Python.
- Familiar with Java, MATLAB, Android Development, FPGA programming, and XAML.
- Experience using git, TFS, JIRA, Microsoft CRM, Slack, and Visual Studio in a scrum work environment.

### SOFTWARE

- Proficient with Microsoft Office applications, SolidWorks, AutoCAD, Xilinx, LabView through various projects.

## EXPERIENCE

### TIGERCAT INDUSTRIES INC. | Diesel Engines Systems Controls Intern

April 2019 – Jan 2020 | Paris, ON

- Developed, tested, documented and deployed machine control system software using Parker IQAN.
- Utilized and debugged control bus protocols such as CAN, J1939.
- Designed, implemented and supervised a number of improvements to engine systems driven by field quality.
- Used SolidWorks and DraftSight to make changes to engine components and pushed changes through the engineering process.

### TRANS PLUS SYSTEMS | Software Engineering Intern

January 2018 – September 2018 | Guelph, ON

- Created parsing algorithms to assist in the importation of fuel receipts and solved many other complex problems on a daily basis in C# and VB.
- Worked with third party mapping API's that enabled the company to implement a geocoding feature.
- Worked with SQL scripts and stored procedures to cache and populate information on different Crystal reports.
- Utilized Visual Studio to create migration scripts for clients wanting to update their software.
- Operated within a team oriented agile scrum environment and participated in scrum meetings.

### FIAT CHRYSLER AUTOMOBILES | Die Cast Operator

June 2015 – January 2017 | Toronto, ON

- Worked in an aluminum high pressure die casting facility operating a manufacturing cell and trouble shooting problems when they arose.
- Identified and disposed of parts not meeting quality standards and used root cause corrective actions to provide solutions to reoccurring problems.
- Followed strict safety requirements concerning maintenance procedures and followed the 5s' of manufacturing.

## PROJECTS

### DON DETECTION PROJECT | University of Guelph

February 2020 | Guelph, ON

- Created a system capable of identifying and removing DON infected corn kernels using TensorFlow, primarily written in Python and C.
- Utilized and mated a number of micro-controllers with various mechanical systems to remove infected kernels accurately.

### GRYPHON RACING ELECTRICAL ENGINEERING TEAM | University of Guelph

September 2016 - September 2017 | Guelph, ON

- Worked with a team of engineering students to document and update electrical work done on the Gryphon race car using AutoCAD Electrical and SolidWorks Electrical.
- Involved in integrating the tire temperature sensors to existing electrical systems.

## EDUCATION

### UNIVERSITY OF GUELPH | B.Eng Engineering Systems & Computing

September 2015 - April 2020 | Guelph, ON