Marek Niewiadomski

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SKILLS

PROGRAMMING

- Proficient in C#, SQL, VisualBasic, C, Parker IQAN,and Python.
- Familiar with Java, JavaScript, Android Development, XAML, and MAT-LAB.
- 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

- Designed, implemented and supervised a number of improvements to engine systems driven by field quality reducing engine oil consumption by up to 10%.
- Collaborated with both upper management, floor personnel, and other engineers to complete all assigned projects well before posted deadlines.
- Developed, tested, documented and deployed machine control system software using Parker IQAN.
- Utilized and debugged control bus protocols such as CAN, J1939.

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

- Trained and implemented a object detection model capable of identifying corn kernels using TensorFlow, primarily written in Python and C.

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