Marek Niewiadomski

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SKILLS

PROGRAMMING

- Familiar with Allen Bradley PLC, Rockwell PLC, and MATLAB.
- Proficient in C#, SQL, VisualBasic, C, Parker IQAN,and Python.
- 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.
- 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 – Present | Toronto, ON

- Worked in a factory environment regularly communicating machine status with management and maintenance.
- Followed strict safety requirements concerning maintenance procedures and adhered to the 5s' of manufacturing.
- Performed quality checks on parts and used root cause corrective actions to provide solutions to problems.

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.
- Utilized and mated a number of micro-controllers with various mechanical systems to remove infected corn kernels accurately.

GRYPHON RACING ELECTRICAL ENGINEERING TEAM | University of Guelph

September 2016 - September 2017 | Guelph, ON

- Collaborated with a team of engineering students mounting sensors and other mechanical components to the Guelph FSAE race car.

EDUCATION

UNIVERSITY OF GUELPH | B.Eng Engineering Systems & Computing

September 2015 - April 2020 | Guelph, ON