**Luigi F. Moca**

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**EDUCATION**

Purdue University, West Lafayette, IN B.S. Electrical Computer Engineering Technology May 2018

Semester Honors Fall 2014, Fall 2017, Spring 2018 | Dean’s List Fall 2014, Spring 2015

**WORK EXPERIENCE**

**Software Engineer II – Riverside MFG, LLC** Sept. 2023 - Present

14510 Lima Rd, Fort Wayne, IN 46818

* Programmed embedded code for PIC16, STM32, & ESP32 microcontrollers
* Facilitated manufacturing testing procedures in C# for product validation
* Improved & saved customer relations, collaborating with client’s engineers for product improvement
* Assisted other engineers resolving software issues

**Design IoT Engineer I – Regal Rexnord** July 2020 – Dec 2022

1946 W Cook Rd, Fort Wayne, IN 46818

* Maintained embedded code for STM32 microcontrollers, specifically for temperature sensor development
* Coded defrost & night curtain detection algorithms in the Python language, turning data into customer value
* Developed multiple software tools in an array of languages for debugging and checking IoT hardware
* Executed SQL queries in the Python language, evaluating field data for algorithm development & customer reports
* Created and managed documentation for various low-level devices & coded algorithms
* Interacted with customers regarding their IoT products and alerts subscription
* Drove & tested Android & iOS application features through user design & testing

**Staff Engineer & Junior Programmer - Premier Power Maintenance** July 2018 – June 2020

4035 Championship Drive, Indianapolis, IN 46268

* Designed & developed various Windows Applications for Dissolved Gas Analysis & Oil Quality Screening assessments, and project proposals through Microsoft Visual Basic Studio
* Implemented a program to help the HR team automate their 401k payroll process
* Automated apparatus test forms in the VBScript programming language
* Utilized AutoCAD to revise & create drawing files for customer requirements
* Tutored co-workers on basic electrical/electricity & programming concepts and university math subjects
* Worked in teams to perform maintenance on customers’ apparatus

**Lab Assistant - Data Acquisition & Systems Control** January 2015 - May 2017 Purdue University, West Lafayette

* Educated students how to utilize lab equipment
* Trained students in laboratory exercises

**Student Teacher at STEM Academic Boot Camp**  July 2015 - August 2015

Purdue University, West Lafayette

* Guided students through basic electrical course work, pre-calculus, and calculus

**SKILL ASSETS**

Proficient in C/C++, Visual Basic Studio (.NET), VBScript, Python, HTML + CSS, JavaScript, SQL, working knowledge in Java, PHP

Hands-on knowledge of PIC & STM Microcontrollers, familiar with ESP microcontrollers

Familiar with TouchGFX, FreeRTOS

Knowledgeable in Autodesk Inventor, Autodesk Fusion 360, Autodesk Eagle, & AutoCAD

Able to operate devices such as power supplies, oscilloscopes, function generators, & emulators

Able to work excellently in a team through the design & development process

Conduct software design & code reviews

Microsoft Office Proficiency

Fluent in Spanish, Italian (Working Knowledge)