Luigi F. Moca

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(317) 712-0452

EDUCATION

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

Overall GPA: 3.28 / 4.0 - Semester Honors Fall 2014, Fall 2017, Spring 2018 | Dean's List Fall 2014, Spring 2015

WORK EXPERIENCE

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
- 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, Regex, working knowledge in Java, PHP

Hands-on knowledge of AVR Microcontrollers, familiar with ARM Cortex-A, Cortex-M series, & STM Microcontrollers

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

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

Conduct software design & code reviews

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

Failure Mode & Effect Analysis

Highly proficient with Microsoft Office

Fluent in Spanish