MANUEL LEMOS

(289) 230-6593

LAD

EXPERIENCE

MAY 2021 - AUGUST 2022

BUSINESS INTELLIGENCE DEVELOPER - COOP, CURTISS WRIGHT

Designed, implemented, and maintained a suite of Key Performance Indicators.

- Developed informed statistics to drive strategic business decision making.
- Created SQL queries to source data from an Oracle Business System.
- SQL, VBA, Excel, PowerBI

Conceived and spearheaded an interdepartmental project to develop automated tools and reports.

- Virtually eliminated time spent on manual data entry and manipulation.
- Improved interdepartmental communication via automated report synchronization and auto mailing.

Developed a VBA Module library.

- Applied fundamental concepts of software design.
- Testing standards, naming conventions, and thorough documentation were enforced.

Independent Capital Expenditure Project.

- Constructed in-house solutions to high-cost vendor operations.
- Determined the cost and timeline of implementation.
- Conducted an economic analysis and created a business case for the expenditure with recommendations.

JULY 2015 - AUGUST 2020 (SEASONAL)

JOB QUOTING AND IT SOLUTIONS, HOFFER MECHANICAL

Quoted projects.

Implemented a cloud based SDS database.

Programmed an automated job costing application to retrieve product pricing from vendors.

Python, Excel, User Interface

Front End Web Development

Created an **Angular** application to replace an outdated website.

CAD Modelling in Autodesk Inventor and AutoCAD

EDUCATION

SEPTEMBER 2018 - APRIL 2023

BSC MECHATRONICS ENGINEERING, MCMASTER UNIVERSITY

3.8 GPA (10.6 on 12-point scale)

President's Award Scholarship Recipient

Provost Honour Roll

SKILLS

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PROGRAMMING				SUFTWARE				LA	LAB	
•	Python	•	HTML + CSS	•	Git	•	GitLab	•	Soldering	
•	С	•	Angular	•	VSCode	•	Royal TSX	•	Arduino	
•	JavaScript	•	SQL Server	•	Eclipse	•	MobaXterm	•	Multimeters	
•	Verilog	•	Visual Basic	•	Office 365	•	Google Suite	•	Oscilloscopes	

COETIMADE

PROJECTS

SEPTEMBER 2022 – APRIL 2023

CYCLOPS RIDE ASSIST, CAPSTONE PROJECT AT MCMASTER UNIVERSITY (TEAM OF 5)

Source Code

An all-in-one bicycle mounted ride monitoring device. It provides users with rear vehicle detection, early collision avoidance warning, crash detection, video recording, and ride data logging. I played a key role in every facet of this project's design, implementation, and documentation. I gained significant experience operating in a git workflow, writing optimized and understandable code, designing and assembling circuits, and creating robust 3D models.

Technologies: Git, Python, LiDAR, Serial, Accelerometer, I2C, Video Capture, FFMPEG, OpenCV, Inventor, Slic3r, 3D printing, soldering.

OCTOBER 2020 - DECEMBER 2020

PACEMAKER, ACADEMIC PROJECT AT MCMASTER UNIVERSITY (TEAM OF 5)

Source Code

A responsive pacemaker system implemented on a K64F MCU.

I was the driving force behind the development of a Simulink model capable of interfacing with a Vue/Electron application in real time through a serial port.

Technologies: Simulink, K64F, Serial Port, Node.js, Vue.js, Electron, Mongoose, Express, GAE, MongoDB Atlas, Git