Henry A. **Odunze**

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Education

University of Waterloo

Waterloo, ON

BACHELOR OF APPLIED SCIENCE IN ELECTRICAL ENGINEERING

Sep 2015 - June 2020

· Algorithms and Data Structures, RF and Microwave Circuits, Distribution Systems, Control Systems, Management Science

Skills

Languages/Frameworks C++, Python, JavaScript, Java, HTML5, Hadoop, MySQL, VHDL, Powershell, Django, ARM architecture

Development Platforms Android Studio, InVision, Git, Selenium Webdriver, MATLAB, JIRA, IntelliJ, AS/400

Experience _

Cognitive Systems Corporation

Waterloo, ON

DIGITAL SIGNAL PROCESSING ENGINEER INTERN

Sep 2019 - Dec 2019

- Created a zone detection feature, using Python and NumPy library, for the company's WiFi motion algorithm to improve its degree of accuracy on predicting zones in a test region
- Validated simulation of zone detection feature via regression testing with Python scripts on **Linux** system
- Responsible for quality assurance maintenance of the motion detection algorithm features with **Trello** and **Grafana** applications

PRGX Mississauga, ON

JUNIOR SQL DEVELOPER

Sep 2018 - Dec 2018

- · Executed audit data processing including data aggregation, and transformations on MySQL and Hadoop platforms to analyze audits for big businesses like Walmart and Sobeys
- Managed multiple data resources and handled local client data loading with Hercules system on AS/400 architecture
- Administered over 1000000+ backlogged email extraction, ingestion and conversions from PST to EML formats to evaluate for auditing and possible claims for respective clients

AudienceView Ticketing Corporation

Toronto, ON

SOFTWARE AUTOMATION DEVELOPER INTERN

May 2017 - Aug 2017

- Developed JS scripts on Selenium Webdriver to manage e-ticketing and settlements on a CMS software
- · Refined CMS platform's automated web UI, with Webdriver API handlers, and extending its browser capabilities to Firefox and Safari
- Created an automation web code structure for the CMS solution using JavaScript and NodeJS with HTML5 for browser elements

eSolutions Group Waterloo, ON

QA ANALYST

Sep 2016 - Dec 2016

- Structured page templates for Cambridge City Services and developed test cases, with **Testlodge**, to test for various user interactions
- Developed MS Powershell automation scripts and integrated Pester for more efficient quality management on web solutions
- Designed website models and site map templates with i:Create, a CMS tool, for future design projects

Projects _

Onyx Waste Management Optimization System

Waterloo, ON

May 2018

DESIGN PROJECT

September 2019

- · Onyx is a smart waste collection system that provides intelligent monitoring of waste containers with IoT fill-level sensors as well as route optimization for efficient collection
- Devised the PCB layout, with Agilent ADS System for the components of the Time-of-Flight sensor to be used in waste containers
- · Assembled the sensor circuit board components the microprocessor, voltage regulator, 2G SIM Module, etc., by soldering techniques

Waterloo, ON **Myo Gesture Control**

EXTRACURRICULAR PROJECT • Myo Gesture Control uses Myo armband by Thalmic Labs to provide gesture control capabilities on mobile and web applications

- Implemented HM-10 BLE module on Arduino via CCLoader, with IR signals assigned to Myo gestures for gesture control