VERONICA CHIGOZIRI OBODOZIE

Tel: (647)-574-6474 | Email: veronicaobodozie@gmail.com | Website: GozisGrowth

SUMMARY OF SKILLS

Software Tools: MATLAB, CATIA V5, ABAQUS, Jira/Confluence, Git, MS Office, ArcGIS, Jenkins, OCP, Helios.
Programming Languages: Python, Visual Basic Application (VBA), Groovy, SQL, C, C#.NET
Concepts: R&D Prototyping, Data Analysis, Quality Automation, Monitoring, Technical Documentation, Validation and Verification, Test plan Development, Manufacturing, Project Management, Modeling and Testing, Control Systems, Internet of Things (IoT), Embedded Systems, Robotics, Finite Element Analysis, Root-cause Analysis.

EDUCATION

Space Studies- Interactive Space Program Jul. 2020 – Aug. 2020
International Space University– Remote Ontario
Bachelor of Engineering, Aerospace Co-op (with Distinction) Sep. 2015 – Jun. 2020
Toronto Metropolitan University– Toronto, Ontario
- **CGPA**: 3.80/4.33

WORK EXPERIENCE AND PROJECTS

Junior Site Reliability Engineer Apr. 2022 – Present
Royal Bank of Canada – Bedford, Nova Scotia
- Developed python-based dashboard instrumentation, which populates dashboard KPI milestones with results from database SQL queries.
- Performed Root Cause Analysis post-mortems with business, support and developer application stakeholders to identify impact and cause of incidents; collaboratively developing fixes and long term solutions.
- Developed automation pipeline by sending customized payload from Jira Service Desk and implementing a Jenkins pipeline script to trigger the python code to update a file.
- Implemented monitoring and alerting capabilities, improved service by recreating SLAs between business, operations, development and dependent to better determine MTTR.
- Supported Agile framework by leading stand-ups and supporting sprint planning using JIRA and MURAL retros.

Various Customer Service Roles Dec. 2021– Mar. 2022
Toronto, Ontario
- Virtually assisted with specimen collection and transport packaging, reviewing necessary paperwork to ensure accuracy, and maintaining patient confidentiality for at-home COVID-19 tests.
- Worked in a fast-paced environment with multiple appointments in a shift, each appointment typically lasted 15-20 minutes. Contacted supervisor if a long-running observation would affect the next appointment.
- As a Sales Associate at Suzy Shier, provided customers with knowledgeable services on merchandise including benefits and features while implementing visual merchandising standards and marketing timelines.

Engineering Intern Jul. 2018 – Aug. 2019
SAFRAN Landing Systems –Ajax, Ontario
- Collaboratively developed, tested, and validated tools, captured technical requirements, translated problems into predictive analytics, and communicated results to internal stakeholders for internally developed software.
- Created logic and pseudo code, broke down the general theories and equations being used, and used VBA to develop GUIs.
- Implemented more efficient methods of validation documentation and a feedback tracker to log validation phase making it easier to rotate projects between team members.

Research Assistant Sep. 2017 – Jul. 2018
Ryerson Space Avionics and Instrumentation Lab – Toronto, Ontario
- Improved existing MATLAB code by conducting tests on gearing/stepper ratios of motors, varying acceleration and speed limits using the tuff-tilt inclinometer to ensure proper calibration of software for sidereal coordinate system star tracking of an equatorial telescope mount.
- Maintained GUI code, mount motion code, and test data in a git repository. Produced detailed reports on test results, analysis, problems encountered, and steps taken to resolve them.

VERONICA CHIGOZIRI OBODOZIE

Tel: (647)-574-6474 | Email: veronicaobodozie@gmail.com | Website: GozisGrowth

VOLUNTEER EXPERIENCE AND PROJECTS

Coordinator Jan. 2022 – Present

Black Women in STEM

- Creating a space for black women in STEM, particularly Engineering, to connect, network, learn and discuss experiences.

Volunteer Mar. 2021 – Feb. 2022

Society of Women Engineers Toronto

- Utilized past event coordinator skills to coordinate marketing strategies and organize monthly communication building activities in a team of 3.
- Created and executed data-driven marketing plan for internal organization club, doubling attendance by applying predictive models to existing database. This allowed for a more direct marketing approach.
- Obtained availabilities, strengths, interests, required accommodations, and possible social events feedback from teammates. Helping team dynamics, determining projected dates, and ensured a generous mix of skills.

ACADEMIC PROJECTS

Interactive Space Program 2020 Jul. 2020 – Oct. 2022

- In a three-membered executive team, coordinated an Intercultural, International, and Interdisciplinary team of twenty-nine (29) to produce a report sharing recommendations to the UN-CUOPUS on how space assets and technology can be used in the mitigation of pandemics.
- Wrote and presented conference papers on the feasibility of using space assets to deliver healthcare to remote areas to overcome telecommunications and technology barriers, with a focus on the COVID-19 pandemic.
- Obtained availabilities, strengths, interests, required accommodations, and possible social events feedback from teammates. Helping team dynamics, determining projected dates, and ensured a generous mix of skills.
- This includes satellite-based communication and tracking systems, and the use of smart farming.
- Organized and led the team based on team availability, strengths, interests, and required accommodations.
- Paper available at: https://isulibrary.isunet.edu/doc_num.php?explnum_id=1764

Undergraduate Thesis Jan. 2020 – Apr. 2020

- Developed attitude dynamics and control systems software and simulation using SIMULINK models for the upcoming ESSENCE CubeSat Mission.
- Utilized the relationship between the dipole moment and rate of change of the magnetic field to detumble satellite and perform momentum management of reaction wheels.
- Used Monte-Carlo simulations to determine momentum management and satellite detumbling constant.
- Maintained code and test procedure in GitLab and produced detailed setup and user manual documentation.
- Report available at https://digital.library.ryerson.ca/islandora/object/RULA%3A8754

Capstone: RyeTubeSat20 [Command and Data Handling (C&DH) Team Lead Jan. 2020 – Apr. 2020

- Developed and Tested the C&DH system and GUI for the ground station of RyeTubeSat20.
- Built and executed protocols for data collection and conversion, communication sequence, and feedback between satellite systems.
- Designed and tested a GUI application for the ground station and protocols for data collection and communication.

PUBLICATIONS ANDPRESENTATIONS

the role space assets can play in remote healthcare delivery during pandemics, IAC-21,E5,4,9,x64579, 2021-10-29

mitigating the impacts of pandemics on the supply chain using earth observation data., IAC-21,B5,2,4,x64578, 2021-10-27