FRED MOSE

210-7080 Inlet Drive, Burnaby, BC V5A 1B7
604-355-2880 | mosedref@gmail.com
https://github.com/Mosedref

EDUCATION

Simon Fraser University, Burnaby, BC
- Bachelor of Applied Science, Systems Engineering **Sep 2013- Dec 2018**

SKILLS

▪ C/C++	▪ OS: Windows, Linux	▪ Oscilloscope, DMM, Function generators
▪ Python	▪ JIRA, Confluence	▪ PCB Circuit Design
▪ Selenium WebDriver	▪ Putty	▪ Surface mount Soldering
▪ HTML/CSS/WordPress	▪ MATLAB	
▪ SolidWorks	▪ Wireshark	

TECHNICAL WORK EXPERIENCE

System Test Engineer, IVVQ (Fulltime-Contract)
Thales Canada, Burnaby **Dec 2019- Apr 2020**
- Performed manual and automated software testing of the Communication Based Train Control (CBTC) system, both in simulation and on target hardware
- Responsible for new hardware and software upgrades of lab test fixtures for integration and system testing in preparation for new projects
- Created reference documentation and troubleshooting logs for lab hardware test fixtures, to help my team get familiar with the hardware systems pre-testing, thereby reducing turnaround time for some projects.
- Performed preventive maintenance and troubleshooting of hardware to ensure all lab equipment is in good working condition

Software Test Engineer (Co-op),
Sierra Wireless, Richmond BC **May-Dec 2017**
- Designed and implemented effective test plans for Sierra's wireless network gateways products (GX400, GX440, LS300, ES440, MP70).
- Performed manual and automated software testing to test the LAN, WAN, SMS, Network Security, VPN, Serial communication, IP-Logging and SSH-Telnet features of wireless network gateways
- Designed and implemented automation scripts using Selenium WebDriver with Python for the products web application user interface
- Identified, documented, and tracked software bugs found during testing using JIRA and Confluence
- Resolved bugs and fixes for the User Interface Tools

Junior Web Developer (Co-op),
Olka Solutions, Burnaby **May-Aug 2016**
- Developed, enhanced and, maintained websites using HTML and CSS
- Assisted in the development and execution of test plans.
- Created search engine optimization (SEO) content and promotional strategies for customers to increase their online traffic by an average of 40%

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TECHNICAL WORK EXPERIENCE

Research Assistant (Co-op),
MENRVA Research Group, SFU   **Jan-Apr 2015**
- Developed set up to test Dielectric Elastic Actuators (DEA's) on their conductivity and reliability using methods such as the four point probe in order to better integrate it into smart stockings
- Assisted in building circuits for the electronics used to control the DEA's
- Wrote a conference paper of my research findings and presented it at the *CANSMART 2015 : International Conference on Smart Materials and Structures* held in Vancouver in July 2015

TECHNICAL PROJECTS

SafeLift -Forklift Proximity Warning System (Capstone)   **Jan – Aug 2018**
- Designed a UHF RFID and Sensor system programmed in C/C++, that minimizes the risk of accidents between forklifts and pedestrians in shared work zones in warehouses
- Designed & implemented a Graphical User interface in Python, for real-time warning feedback to forklift operator
- Created a SolidWorks model of the gamma prototype and 3D printed it and tested it on a static forklift

OTHER WORK EXPERIENCE

Warehouse Operations Associate
Anixter, Burnaby   **Apr - Nov 2019**
- Verify material against printed orders and available inventory
- Picking, processing and packing customer orders
- Organizing merchandise in warehouse for easy access
- Providing customer service to walk in customers

Project Assistant (Contract Part-time),
Work Integrated Learning, SFU Burnaby   **May - Dec 2018**
- Participating in the development of strategic research planning in improving student services
- Research and documentation of best practices on the Equity, Diversity and Inclusion initiative
- Collecting demographic and other information from faculty, staff and students through surveys or other means
- Collecting input from community members about actions SFU could take to eliminate barriers and to ensure all its members are respected, supported and included