BOBBY **NGUYEN**

MECHATRONICS ENGINEERING

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TECHNICAL SKILLS

DEVELOPMENT

C++, C, Java, Javascript, Structured Query Language (SQL), VBA, HTML & CSS, Bash, Selenium, Appium, Maven

SOFTWARE TOOLS

JIRA, TFS, cron, Zephyr, Git, Charles Proxy, Postman, Kepware, ThingWorx, Tomcat, Android SDK

MECHANICAL TOOLS

AutoCAD, SolidWorks, PICS Pro

EDUCATION

Mechatronics Engineering

University of Waterloo | Class of 2021

Relevant Courses: Algorithms & Data Structures, Real-Time Operating Systems, Digital Logic & Microprocessors, Sensors & Instrumentation, Digital Computation

Android App Development

Udacity | August 2017

Developed strong fundamental Android app development skills in building XML layouts, creating multiscreen and interactive applications.

INTERESTS

Urban Fashion

Cycling

3D Printing

Home Automation

EXPERIENCE

Brock Solutions

Full-Stack Software Developer | Sept. 2018 - Dec. 2018

- Developed and co-architected 20+ back and front end manufacturing execution system software features using Javascript, MSSQL, & Tomcat serving 27 client operating plants
- Wrote SQL queries and procedures to summarize data into useful views that were analyzed for trends using algorithms
- Designed multiple software frameworks for clients, Brembo and Owens-Illinois such as pallet-registration, pallet-tracking and e-mail alerts resulting in an increase of productivity by 15%
- Commissioned to client job sites to co-ordinate releases, implement critical features, and fix production-level bugs

Clearbridge Mobile

Software Mobile Developer in Test | Jan. 2018 - Apr. 2018

- Designed and developed an automated program that installs the latest iOS and Android builds, executes the regression test suites and outputs the results on a set time schedule using Java, Selenium, Appium, Maven, cron & Bash
- Transformed manual test suites into automated scripts freeing 50% of required time for sanity, smoke, and regression tests
- Tested NBC, Sunwing, and Rogers Inc. mobile and web applications serving 1 000 000+ users

Sun Life Financial

Support Specialist | Apr. 2017 - Aug. 2017

- Oversaw 1000+ clients with hardware and software issues
- Tested and reported bugs for software often used by clients
- Repaired defective hardware components for re-use of corporate devices reducing up to 20% of replacement costs

PROJECTS

Beer-Pong Robot

- Created with the combination of motors, gears, sensors, and C++, the Beer-Pong Bot autonomously aims and align to fire ping-pong balls into the opponent's cup with 75% success

Arduino Garage Parking Assistant

- Built and developed an Arduino robot using ultrasonic sensors and coloured LEDS to assist users parking in their tightly spaced garage