

## Summary

- **Field of Interest:** Integrated Circuit Design, Artificial Intelligence and Android Development
- Strong programming skills with the ability to adapt to different languages and systems
- Creative individual capable of coming up with unique solutions
- Excellent communication skills: ability to articulate information in a clear, organized manner

## Work Experience

### JSI Telecom

#### Framework Developer (January 2015 – May 2015)

- Worked with an Agile scrum team to make Team Foundation Server the central point of Application Lifecycle Management and Git the standardized version control system
- Main UI/UX developer for applications that allowed the custom control of workflow management in JSI. These tools were made compatible with new features of TFS 2013 (ASP.NET)
- Developed a series of report automation applications and a centralized application to monitor all of them. (Windows Form Applications, WPF, TFS API, SQL)
- Created and modified many old scripts running in the Project Management office to adapt to the new servers and systems being implemented. (VBA, Ruby)
- Developed a Resume critiquing algorithm that allows users to rate a list of resumes with user-defined criteria. This contributed greatly to the Human Resources and Co-op students department

### Matcor-Matsu Group

#### Systems/Network Administrator (January 2015 – May 2015)

- Responsible for complete IT and network infrastructure at Mississauga plant
- Worked with IT teams to virtualize servers and monitor them using VMware vSphere Client
- Collaborated with Engineers to troubleshoot complex system level issues occurring with the software controlled robot arms.
- Implemented access points/routers around the plant to increase networking range for machines
- Maintained Active Directory, updated security policies, documentation on the intranet

## Technical Projects

### Arduino, Sensor Data Analyzer

- Developed sketches that allow the Arduino microcontroller to feed sensor data via Serial/Ethernet/Bluetooth protocols to a PC for processing by a C# application
- User can receive emails 3 times a day with a detailed account of temperature statistics in his room

### Natural Language Processing (NLP), Android Application

- Currently developing a native Android application using Google Voice API that could change the way programming is approached by users not acquainted with the syntax of computer science
- The application is based on concepts involving natural linguistic programming and artificial intelligence

### Altera DE2 Board, FPGA-PLD Design

- Programmed the FPGA using VHDL and the Altera Quartus II Design Suite to learn the fundamentals of hardware design
- Projects involved developing car control system, elevator control system, traffic light control system

### Order Now, Android Application

- Currently developing an Android Application that allows users to order online at select food chains. The app requires users to sign up to a backend SQLite database system that I created.
- Users can order online indicating pick up times: 5, 10 or 30 minutes

## Technical Skills

### Development Boards

Arduino Uno R3, Raspberry Pi  
Altera DE2 FPGA Board

### High - Level Languages

C#, Java, XML, jQuery, HTML, CSS

### Low - Level Languages

VHDL, Arduino (C/C++)

### Scripting Languages

VBA, Python, Ruby

### Query Languages

SQL, SQLite for Android

### Source Code Control

Git, TFVC, SVN

### Development Environments

Visual Studio, Android Studio  
Eclipse, Arduino IDE

### Network Administration

VMware vSphere Client  
VPN, TCP/IP

### Project Management Tools

Team Foundation Server, Jira

### Operating Systems

Windows XP, 7, 8.1  
Linux – Ubuntu, Raspbian  
Windows Server 2012 R2

## Courses

### University of Waterloo

Fundamentals of Programming (C#)  
Linear Circuits  
Digital Systems (VHDL)  
Embedded Systems (Android)  
Physics of Electrical Engineering  
Discrete Mathematics

### Coursera

Intro to Electronics  
Galaxies and Cosmology  
Computer Networks  
Intro to XNA Studios

## Interests

### Sports

High School Soccer Team Captain  
High School Basketball Team PG

### Music and Fine Arts

Tabla (Indian Percussion Instrument)  
Beatboxing

### Activities

Wild life Safaris  
Organic Gardening