

Xiao (Nancy) Huang

PERSONAL INFORMATION

ADDRESS: 1211 Rue Drummond, Montreal, Quebec, H3G 0E6, Canada
PHONE: +1 514 995 0119
EMAIL: xiao.huang4@mail.mcgill.ca
WEBSITE: <http://xiaohuang.in/>
LANGUAGES: English (fluent), French (basic), Mandarin Chinese (proficient)

EDUCATION

MAY 2017 Bachelor of Engineering (Electrical)
McGill University, Montreal, Quebec
GPA: 3.55/4

SKILLS

Programming Languages: JAVA, JAVASCRIPT, HTML, CSS, C, C++, MIPS ASSEMBLY
Operating Systems: Windows, Mac OS X, LINUX
Softwares: Wireshark, LabVIEW, SilkTest, PowerShell, Spice, MATLAB
Hardwares: VHDL, Circuits analysis and measurement

WORK EXPERIENCE

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|----------------|---|
| MAY - DEC 2015 | <div>LambdaGain Engineering Intern at FONEX DATA SYSTEMS, Montreal
<i>A carrier-class telecom equipment supplier</i></div> <ul style="list-style-type: none">• Communicated with telecommunications vendors to obtain pricing and technical specifications for available hardware, software, or services• Developed basic schematic drawings and engineering instructions for assembling optical modules, applying knowledge of optics theory and components.• Documented and write reports using Microsoft Outlook, Word, PowerPoint and SharePoint.• Prepared and assisted in the delivery of presentations on the new product introduction projects to internal customers.• Operated optical test and measurement equipment such as power meters, wavelength meters, camera scopes, optical spectrum analysers, telecommunication equipment such as switches, BERT, traffic analysers. |
| JAN - MAY 2015 | <div>SQA Developer Intern at MATROX ELECTRONIC SYSTEMS, Montreal
<i>Providing software and hardware solutions for graphics, video, and imaging/machine vision applications</i></div> <ul style="list-style-type: none">• Maintained ownership of design, execution and maintenance of automated testing framework, scripts and utilities• Developed test cases for a video error detecting software and debug• Developed an automatic task scheduler application using JAVA and PowerShell |
| MAY - DEC 2013 | <div>Web Communication Assistant at MCGILL UNIVERSITY, Montreal
<i>Communications and External Relations Department</i></div> <ul style="list-style-type: none">• Helped maintain and continuously improve the contents of McGill websites• Troubleshoot some bugs such as link errors using HTML• Set up web traffic reports using Google Analytics• Photo editing using Photoshop |

ACADEMIC PROJECTS

SEP 2016 - MAY 2017 | High-Performance Digital Musical Synthesis using FPGA with Embedded ARM Processor Cores

- Worked on the hard processor side of Terrasic DE0-Nano-SoC Board
- Created a customized LINUX kernel image with Debian filesystem
- Programmed the MIDI (Musical Instrument Digital Interface) controller to process musical information from the keyboard using C++
- would work on programming the LCD display

SEP-DEC 2016 | Telecommunication Network Laboratory

- Measured network traffic and performance characteristics using the tools of Traceroute, Ping and Wireshark
- Implemented a DNS client program using sockets in JAVA
- Investigated the behavior of the TCP by using Wireshark to capture packets and analyze the traces
- Configured the forwarding and firewall rules using the iptables application in Linux

JAN - APR 2016 | Embedded System Project
Programming a myRIO development board to use machine learning and its accelerometer to recognize its orientation relative to Earths gravitational field.

- Gained neural networks machine learning knowledge
- Designed the whole system using JAVA first to get a better understanding
- Implemented the design using LabVIEW System Design Software
- Tested and Documented the design

SEP - DEC 2014 | Digital System Design
Using Altera Quartus II FPGA design software to design combinational logic circuits

- Designed implemented a Digital Rowing Machine circuits described in VHDL and tested the final product satisfying requirements.
- Documented the design and testing process thoroughly.

JAN - APR 2014 | Robotic Competition
Identifying and manipulating Styrofoam blocks, while navigating within an enclosed area with randomly obstacles

- Led a team of 6 to design a fully autonomous robot using LEGO Mindstorms NXT kits to manipulate colored Styrofoam block
- Programmed the robot with JAVA using Eclipse IDE to execute multiple tasks
- Documented the entire design process (Mechanical, Software and Testing)

SCHOLARSHIPS AND CERTIFICATES

SEPT 2012 | McGill International Entrance Award scholarship