James Xi Chen, B.Sc., E.I.T

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EDUCATION

B.Sc. in Electrical Engineering   *September 2011 to June 2015*

University of Alberta   *Edmonton, AB*

QUALIFICATIONS

- Six years of web-based application development using server scripting languages such as PHP, .NET, PYTHON
- Fluent with JavaScript, front and backend development scripting languages such as Jquery, nodeJS, ReactJS, and AngulaJS2
- Professional understanding with MySQL, MSSQL, and NoSQL (MangoDB working with REST API)
- Comfortable working with Symfony environment for PHP as a backbone for developing web applications.

RELATED EXPERIENCES

Website Development

- Fully developed Hart House Wine and Tapa's (http://harthousewineandtapa.com) restaurant front and backend with customized gift certification purchasing/self-maintaining, functional reservation page with integrated mailing service and text message system.
- Fully developed Health Supplement's Plus (https://healthsupplementsplus.com) shopping website from PHP, MySQL, JavaScript. It features currency conversion with real-time updates, multi-language support, smart checkout feature based on language, region of purchase and currency used. It also has a complete working administrator back page. Link for administration page can be viewed via

  https://healthsupplementsplus.com/admin *(user:demo password:demo).*
- Developed a raffle website that features real-time participation statistics, online draw via randomized generator, and live update of revenue to be donated to NGOs (unfortunately, website was not able to be posted due to legal issues)
- Developed a specialized search engine for a research project that allows administrator to input address location of companies and will automatically calculate geo coordinates and enables users to see results based on their geological location, having real-time update using google maps API version 2.

WORK EXPERIENCES

Ausenco Ltd.   *July 2015 to Present*

Junior Electrical/Instrumentation and Controls Engineer   *Calgary, AB*

- Designed EHT for PNL Pot Seal Project using existing equipment
- Assisted with EHT, junction box, wiring diagram, CWP, ETAP and cable schedule for Statoil L5 Expansion Project
- Fluent with both Thermon's and Pentair's EHT software
- Experience with single line diagram, area class, load list, cable tray and cable sizing calculation
- Knowledge in interpretation of P&ID, different equipment uses and designs based on ISA 5.1 and specifically standards for Devon and Statoil
- Worked with alarm lists, instrumentation index, and loops
- Able to create MRP and MRQ based on equipment needs and specifications
- Practical and theoretical knowledge on linear and non-linear control systems and simulation with programs such as DeltaV and Simulink

Eclipse Engineering and Geomatics Ltd.   *May to December 2013*
Administrative (Project) Assistant and IT Manager   *Calgary, AB*
- Created Transmission line catalog, surplus materials and excel functional database
- Constructed databases for field timesheets via Microsoft Excel/SQL database
- Maintained Access Database for SharePoint and webpage login
- Developed and finalized company's webpages *(http://eclipseltd.ca)*
- Helped alongside the project managers on proposals and budget preparation
- Hosted meetings with Debian IT on negotiating service contract
- Offered practical advice on future sever infrastructure network and rerouting
- Provided desktop support to 30 staff members