Frank Liang

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QUALIFICATIONS

- Enthusiastic self-starter with noble engineering aptitude and a focus on productivity, quality, and performance
- Languages: C++, C#, Java, XAML, SQL, Git, HTML/CSS, ARM ISA, MATLAB, VBA, and VHDL
- Technical proficiency: Visual Studio, Android Studio, Microsoft SQL Server 2008
- Knowledge of logic gates and digital systems
- Experience with the UNIX/Linux operating system
- Familiarity with the Engineering Design Cycle and optimization of the design process
- Familiarity with the Agile software design environment
- Strong project management abilities; ability to multitask and flourish in fast-paced team environments
- Excellent attention to detail and demonstrates a unique ability to learn very quickly

WORK EXPERIENCE

KPMG LLP – Toronto, ON http://www.kpmg.ca
Software Developer - Digital Compliance September 2016 – December 2016

- Developed a C#.net data automation software that produced distribution analysis for over 100 funds
- Designed SQL databases, stored procedures, and scripts for automatic data input from a .NET framework
- Wrote VBA macros to perform multiple calculations and update Excel workbooks
- Collaborated closely with partners, senior managers, and other tax professionals in the software design process

PAVAC Industries – Richmond, BC http://www.pavac.com
Junior Electrical Engineer January 2016 – April 2016

- Assembled and wired a $600,000 Electron Beam Welder with other members of the Electrical Department and completed the project 30% faster than the previous machine
- Assisted with creating a Bill of Materials to determine raw materials, sub-assemblies and sub components
- Edited schematic designs/drawings using Zuken e3
- Edited and assembled PCB boards using Zuken e3 for the BIAS and Arc Protection PCBs
- Created Purchase Orders and contacted manufacturers for electrical components

PROJECT

GPS Navigator May 2016 – July 2016

- Developed a Java application on Android Studio that collected readings from internal smartphone sensors to calculate walking displacement and generate GPS navigation
- Created a recursive algorithm to determine the shortest path between the user's chosen starting point and destination for minimal walking distance
- Implemented an UI that updates a Graph View displaying accelerometer and gyroscope readings through event handlers

EDUCATION

Bachelor of Applied Science University of Waterloo, Waterloo, ON https://uwaterloo.ca
Honours Computer Engineering – Co-operative Program September 2015 – Present
Relevant Courses: Algorithms and Data Structures, Embedded Systems Design, Discrete Mathematics, Numerical Methods, Digital Computers and Systems, Electronic Circuits

AWARDS & ACHIEVEMENTS

University of Waterloo – Waterloo, ON September 2015
President's Award of Distinction Student Scholarship ($2,000)

BC Ministry of Education – Vancouver, BC June 2015
BC Achievement Scholarship ($1,250)