**Felix P. Chow**

Mobile Phone: +852 5182-6543 (Hong Kong)

+86 13728741373 (Mainland China)

Email: [felix.cpy@gmail.com](mailto:felix.cpy@gmail.com)

Detail-oriented, passionate software engineer with two years of experience involving multitude of programming task. Always strives to improve the quality and efficiency of past and present work product. A background in numerical analysis has provided me a solid analytical foundation to transition to software development.

**Certifications and Skills**

* Programming Languages:
  + - C#—8/10
    - Java—4/10
    - HTML, CSS, Javascript/jQuery—4/10
    - SQL—3/10
    - FORTRAN77, MATLAB, VBA—2/10
* Interests: Arduino, Raspberry Pi, Android Studio

**Education**

**M.S. in Mechanical Engineering** (2003-2006)

University of California, San Diego

**B.S. in Mechanical Engineering** (2002-2003)

University of California, Berkeley

**B.A. in Philosophy** (1998-2002)

University of California, Santa Cruz

**Technical Courses**

* Fluid Mechanics (Incompressible and Compressible Flow)
* Finite Element Analysis in Solid Mechanics
* Numerical Method
* Aerodynamics
* Environmental Flow
* Machinery Design
* Control Theory

**Programming Experience**

**Software Engineer**

IRESC (Integrated Risk, Environment & Safety Consultants) (2018-Present)

This company specialize in risk analysis for the petroleum industry using a variety of commercial and in-house developed software

* Develop and maintain desktop applications using C# and OpenGL to facilitate consultants’ risk analysis and visualization
* Oversee coding projects developed using C# and MATLAB by interns and ensure proper coding practices are utilized
* Suggested an algorithm for fire risk analysis that was implemented in an intern’s project

**Software Engineer**

Ngai Kwong Industrial Ltd. (2016-2018: 2 Years)

A household electric appliance OEM in Shenzhen

* Program Arduino development board to control stepper motors that operate an longevity test rig to be used by the QA department
* Develop console applications using C# to communicate with a project management software package via the package’s web API and email and query MSSQL
* Develop desktop application, using Java Swing, to be installed in single board computers to standardize QA reporting and photographing of defects
* Front end web development for mobile app (WeChat)

**Other Experience**

**Test Engineer**

Ngai Kwong Industrial Ltd. (2011-2015: 4 years)

* Develop test plans for QC’s department and procedures for new products and ensure that they conform to product spec and safety standards
* Oversee tests performed by other engineers
* Performed numerical simulations(FEA and CFD) to aid design modifications
* Developed P&G approved test method for inspecting contractor built component

**Associate Forensic Scientist**

Institute of Risk And Safety Analysis (2010: 1 Year)

* Accident reconstruction based on photographic evidence and depositions
* Propose and perform tests that replicate the physical conditions of an accident

**Project Engineer**

C.W. Crosser Construction (2007-2008: 1year)

* Earthwork and quantity take-offs and assisted with bidding
* Stake-outs and topographic land surveys
* Solicited material and subcontractor quotes