

SIMON KRAFFT

Eastchester, New York | 914.620.7262 | krafftsimon@gmail.com

SOFTWARE ENGINEER

Innovative Software Engineer offering skills in Java development, telecommunication networks, control systems, operating systems, data structures, algorithms and design principles. Provide familiarity with complexity theory and databases, and experience with a variety of programming languages. Present a desire to learn new technology and enjoy interacting with customers. Consistently take initiative when given creative license. Collaborate with clients and internal engineering/product and design teams to gather requirements. Build and integrate applications with CSS, HTML, JavaScript and jQuery, among others. Improve the user experience and functionality for tools. Write testable code utilizing common testing frameworks.

Areas of Excellence:

Java Development • Communications Systems • Telecommunication Networks • Control Systems • Operating Systems
Software Quality Assurance • Software Engineering • Design Principles/Methods • Algorithms • Data Structures
English and French Fluency

EDUCATION AND PROFESSIONAL DEVELOPMENT

BACHELOR OF SCIENCE – COMPUTER ENGINEERING, McGill University, Montreal, Quebec, Canada

Relevant Coursework: Communication Systems, Telecommunication Networks, Microelectronics, Control Systems, Algorithms and Data Structures, Operating Systems, Software QA, Digital System Design, Microprocessors, Software Engineering, Design Principles and Methods, Computer Architecture

FRENCH BACCALAUREAT S – OIB w/merit, FASNY, New York, NY

PROJECTS

- ✓ **Web Application Utilizing Mean Stack:** Constructed a website utilizing Angular 4 on the front end, Node.js and Express on the backend, and MongoDB (Available at www.gainz-tracker.com)
- ✓ **Java Development:** Worked on a team project to design a Bomberman game from scratch, including UI.
- ✓ **Robotics:** Worked on a team project to design a robot. Achieved 3rd place out of 20+ teams.
- ✓ **Electronics:** Developed a low-cost, passive, chipless, humidity sensing RFID tag
- ✓ **Computer Architecture:** Designed a five-stage pipelined MIPS processor in VHDL with branch prediction (1-bit or 2-bit), forwarding, and hazard detection.
- ✓ **Internet of Things:** Read data from an accelerometer, transfer data using UART connection, send data to mobile phone using Bluetooth, transfer the data to an AWS bucket and process it.

PROFESSIONAL INTERNSHIP

Christofle Silver, Inc., New York City, New York (2009 and 2010)

MARKETING CLERK / INTERN

- Updated and Re-designed parts of the store catalog using Adobe InDesign and Photoshop.
- Served on the design team, and learned to utilize colors to influence customers purchases
- Submitted a new design and decoration pattern in-store.

TECHNOLOGY

Programming: Java, JavaScript, TypeScript, C, C++, VHDL, HTML, CSS (Limited Experience – Python, Assembly - MIPS, ARM

Web Development: Angular 4, Express, Node.js, MongoDB

Simulation Program w/Integrated Circuit Emphasis (SPICE): Various circuit design, including Electrocardiography Measurement Circuit, Op-amp, AM receiver

HONORS AND ACHIEVEMENTS

Placed 345th out of 30,577 participants in the Kangourou des mathématiques math competition