

SIMON KRAFFT

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U.S. citizen. Fluent in English and French.

RELEVANT PROJECTS

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- **WEB APP USING MEAN STACK:** Built a website using Angular 4 on the front end, Node.js and Express on the backend, and mongoDB. Available at www.gainz-tracker.com
 - **JAVA DEVELOPMENT:** Team project. Bomberman game from scratch, including UI.
 - **ROBOTICS:** Team project. Designed and coded a robot in Java.
 - **ELECTRONICS:** Low cost passive chipless humidity sensing RFID tag. AM receiver. Operational Amplifier.
 - **DESIGN:** Five-stage pipelined MIPS processor in VHDL with branch prediction(1-bit or 2-bit), forwarding, and hazard detection. Direct-mapped, write-back cache.
 - **DESIGN:** Sensor Data Management from hardware to cloud (AWS).

RELEVANT SKILLS

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- Programming:
 - Some experience with: Java, Javascript, Typescript, C, C++, VHDL, HTML, CSS.
 - Little experience with: Python, Assembly(MIPS, ARM).
 - Web Development:
 - Some experience with: Angular 4, Express and Node.js, MongoDB.
 - SPICE (Simulation Program with Integrated Circuit Emphasis):
 - Used to design various circuits, including an Electrocardiography Measurement Circuit, Op-amp, and AM receiver.

OTHER EXPERIENCES

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- Marketing Clerk for Christofle Silver, Inc. (June-July 2009 & June-July 2010):
 - Part of the Design team. Updated the store catalog using Adobe InDesign.
 - Successfully designed a new decoration pattern in store.

EDUCATION

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- Bachelor Degree in Computer Engineering - May 2017 - *McGill University, Montreal, QC*
 - French Baccalaureat S - OIB with merit - 2012 - *FASNY - New York, NY*

COURSEWORK

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|------------------------------|----------------------------------|-------------------------|---------------------------------|
| • Communications Systems | • Control Systems | • Software QA | • Software engineering |
| • Telecommunication Networks | • Algorithms and data structures | • Digital system design | • Design principles and methods |
| • Microelectronics | • Operating systems | • Microprocessor | • Computer architecture |

FUN FACTS / HOBBIES

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- Canyoning, Canoeing, Rafting, Fitness/weightlifting, Cross country cycling.
 - Traveled and lived extensively in Asia, America, and Europe. Lived 4 years in Singapore, 4 years in Shanghai, and 10 years in the USA. Born in France.
 - Kangourou des mathématiques: Math competition – 345th out of 30577 participants