

Isabelle André

Electrical Engineering, University of British Columbia

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WORK EXPERIENCE

Associate Software Developer — Teradici

MAY 2020 - PRESENT, VANCOUVER, BC

- Expanded and improved the build system required to generate a PCoIP Client for Windows, Mac, Linux, and mobile platforms
- Developed and tested numerous features in soft client licensing for software activation and client subscription plans
- Converted over 300 automation test framework modules from Python 2 to 3 using testing scripts to ensure compatibility

Full Stack Software Engineer — Appstrax Technology

JULY 2019 - AUGUST 2019, LISBON, PORTUGAL

- Implemented a ticketing solution for providers and clients to track projects on a single interface using NodeJS and Angular
- Created a REST Api with Loopback connected to an SQL database
- Integrated black-box testing with a variety of unit tests

PROJECTS

AirBnb Web Application

JAVASCRIPT, TYPESCRIPT, HTML, CSS, EXPRESS, ANGULAR, IONIC, SQL, NODE.JS

Developed and deployed an AirBnb web application from front-end to back-end, including a consumer app, a provider app, and an admin panel

Metal Collecting Autonomous Robot

C, MAKEFILES, EFM8, STM32F051, NRF24 TRANSCEIVER, BO230XS USB SERIAL

Designed and programmed a metal detecting robot collecting metallic objects automatically, restricted within a 0.5 m² perimeter wire, or manually using an Xbox controller.

Simple RISC Processor

VERILOG, ARmv7 ASSEMBLY, MODELSIM, QUARTUS, INTEL FPGA MONITOR, DE1 SOC

Programmed a Reduced-Instruction-Set-Computer CPU using System Verilog HDL running basic OS programmed in ARM Assembly

Flash Cards Android Application

JAVA, XML, ANDROID STUDIO, FIGMA

Developed a native Flash Cards application for Android using Java and an SQLite database to study and test knowledge using cards stored in decks

EDUCATION

University of British Columbia

SEPTEMBER 2018 - PRESENT

3rd Year Electrical Engineering

Vancouver, BC, Canada

Language Skills

Verbal/Written: French, English

Conversational: Japanese

TECHNICAL SKILLS

Languages

Java, Javascript, C, C++, Verilog, ARM, Python, HTML, CSS, Matlab

Frameworks

Node.js, Loopback, Express, Angular, Ionic, gMock

Other

FPGA, Git, JIRA, ROS, SQL, Makefiles, Solidworks, Microcontrollers, Arduino, Android Studio, Linux

ACTIVITIES

Engineering Design Teams

UBC Rapids Prototyping Design Team Member

Built and optimized Prusa Mk3 printers, created 3D print orders for other clubs

UBC Snowbots Autonomous Software Design Team Member

Implemented obstacle avoidance nodes to control robot movements and assess surroundings using C++ and ROS

Clubs and Student Life

Engineering Undergraduate Society, Secretary

UBC Kung Fu Club, President