

# Isabelle André

Electrical Engineering, University of British Columbia

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## WORK EXPERIENCE

### Associate Software Engineer — 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
- Converted over 100 automation test framework modules from Python 2 to 3 and lead smoke tests 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, writing over 20 Acceptance, Integration, and Unit tests to aid in future development of project

## PROJECTS

### AirBnb Web Application

JAVASCRIPT, TYPESCRIPT, HTML, CSS, EXPRESS, ANGULAR, IONIC, SQL, NODEJS

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

### 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 m<sup>2</sup> 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

## TECHNICAL SKILLS

### Languages

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

### Frameworks

Node.js, Loopback, Express, Angular, Ionic

### Other

FPGA, Git, JIRA, ROS, MySQL, Firebase, AWS, Solidworks, Jupyter, Arduino, Android Studio, Ubuntu

## ACTIVITIES

### Engineering Design Teams

UBC Rapids Prototyping Design Team Member

Built and optimized Prusa Mk3 printers, creates 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