# Weijie SHEN

*Permanent resident, relocating to Greater Toronto Area*

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## EXPERIENCE

### Ansys— *R&D Engineer II*

Oct 2021 - PRESENT, Vancouver

Establish Ansys Electronic Desktop infrastructure,

- Refact plot module for future Qt rewrite, separate graphical and non-graphical aspects

- Develop multiple feature-reach frontend with OOD design for improved usability

- Manage eye-diagram issues, efficiently distribute tasks external to the team

- Led bug fixing and testing in Linux and vm, ensuing system stability

### Navblue — *SDE II*

Jun 2021 - Oct 2021, Waterloo

Work as frontend developer on desktop and iOS system using Qt creator

### Lifeworks — *C/C++/C# Programmer*

Jun 2020 - Jun 2021, Montreal

Establish and maintain a comprehensive retirement system, delivering both desktop and web service

- Ensured the reliability of the pension calculation code written in c by identifying and fixing memory leaks

- Innovate by developing a new backend web service to retrieve information from core, facilitating seamless communication with frontend

### Autolog — *Programmer in Artificial Vision*

Jan 2019 - Feb 2020, Montreal

Engineered a robust system for image processing and object detection within vision team

- Pioneered the development of an advanced image processing algorithm, enabling the detection of novel shape in 2d images

- Spearheaded the rewritten process of the outdated c++ system, transitioning it to a modern multi thread c# implementation, enhancing performance and scalability

## EDUCATION

**Ecole Polytechnique de Montréal,** montreal — *Research Master (EE)*

**INSA de Lyon,** lyon — *Master of Engineering (EE)*

## PROGRAMMING SKILLS

C++, C#, Python, Java, JavaScript, .net, rust, go

## PLATFORM & LIBRARY

Windows, Linux, MacOS

OpenCV, OpenGL

React, SQL, MongoDB

## LANGUAGES

English, French, Chinese(mandarin)

## CERTIFICATE

Tensorflow in Practice Specialization, Machine Learning

## RESEARCH

Optimal Decentralized PID Control for Second-order System