

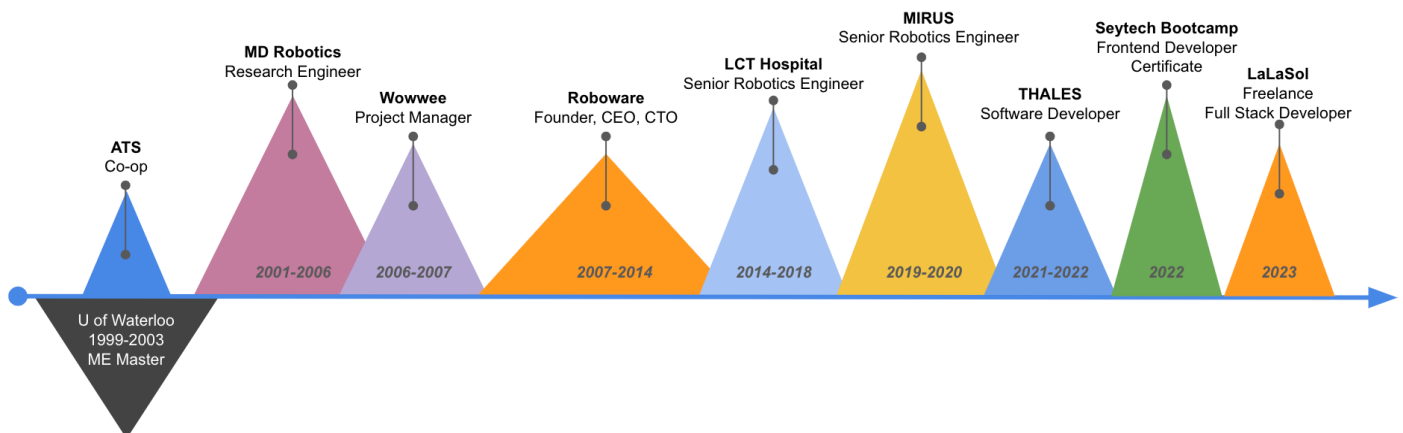
# Mike Kim

[LinkedIn](#) | [Github](#) | [Portfolio](#)

## Skills

- **FrontEnd Development:** React.js, Remix.js, Redux.js/toolkit, ReactHooks, Axios, ReduxThunk, Tailwind, Typescript, GraphQL, Apollo, JavaScript, JSON, HTML5, SASS/CSS, Bootstrap,
- **BackEnd Development:** Node.js, Django REST Framework, Python, Redis, Stripe API, Strapi.js, Prisma
- **Database:** PostgreSQL, MangoDB, MySql
- **Package Management:** npm, yarn, Docker Container, pip
- **App Deployment:** Firebase, Railway.app, AWS S3
- **IDE Development:** QT C++ (10 years), VC C++ (15 years)
- **Embedded H/W Platform:** ARM SAM3XE, Arduino, Raspberry Pi
- **Embedded S/W:** SPI, UART, I2C, CAN
- **3D Visualization:** VTK, ITK, OpenCV, OpenGL
- **Data Communication:** DICOM, Socket (multi-thread), Serial (multi-thread)
- **Coding Life:** Git/GitHub, Scrum, Code review
- **Soft Skills:** Critical thinking, Teamwork, Experience in application development projects, technical design and updating comprehensive technical specification documents

## Timeline



## Work Experience

**LaLaSol Toronto, Canada**  
*Freelancer Full Stack Developer*  
2023

- Initiated the development of LaLaSol's education platform, achieving 100% customer satisfaction and improving the educational environment by 90%.

### **THALES Toronto, Canada**

*Train Signal System Software & Tool C++ Developer*

*2021-2022*

- Engineered tools for London subway transit signal systems, consistently meeting all project deadlines under tight time constraints and reduced simulation time by 20%.

### **MIRUS Atlanta, USA**

*Senior Medical Robotics Engineer.*

*2019-2020*

- Led software development for a groundbreaking Spine Surgical Robot, building the foundation for the spine robot platform in a very short period, enabling the company to start a new product line and achieve the company goal 100%.

### **Lee Chun Tak Hospital Seoul Robotics Research Centre**

*Senior Medical Robotics Engineer: (Orthoplanner S/W)*

*2014-2018*

- Pioneered the development of the Knee Replacement Software, resulting in a 40% increase in revenue, a 50% reduction in surgical time, and over 1000 successful surgery cases.

## **Professional Achievements:**

- Founded and led ROBOWARE, establishing affordable personal robots for the educational market. (increased revenue 200%)
- Managed projects at WowWee, a leading robotic toy company, including the RSMedia and Elvis Presley Robot projects, overseeing production lines and developing embedded motion generation software. (increased revenue 30%)
- Participated in the development of the Canadarm (SSRMS, SPDM) and contributed to Hubble Telescope projects at MDRobotics, gaining substantial expertise in space robotics.

## **Education**

### **SeyTech Bootcamp**

*2022*

*Frontend Developer*

### **University of Waterloo**

*1999-2003*

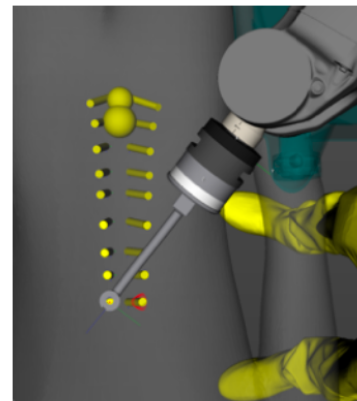
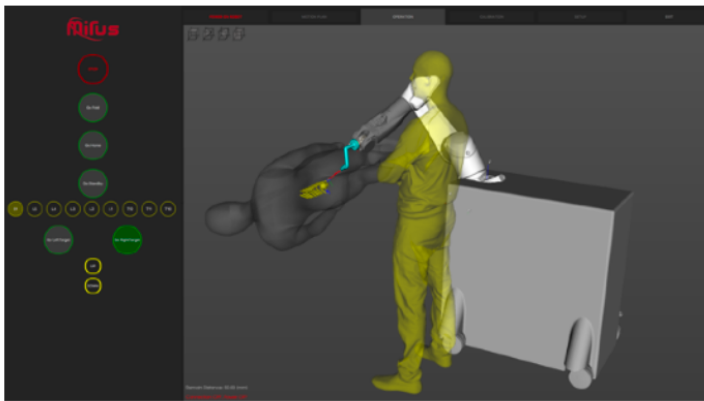
*Master Degree of Mechanical Engineering*

- Received NSERC Full Scholarship and Fellowship.
- Developed the DynaSim S/W for multibody motion simulation.
- Thesis: Multibody Kinematics & Dynamics Analytical Simulation.

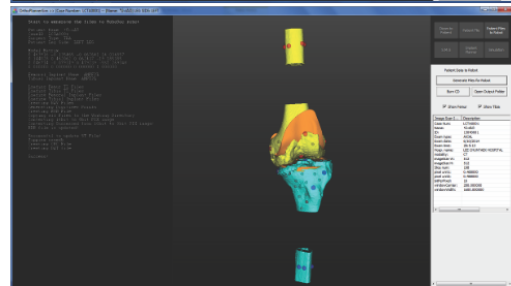
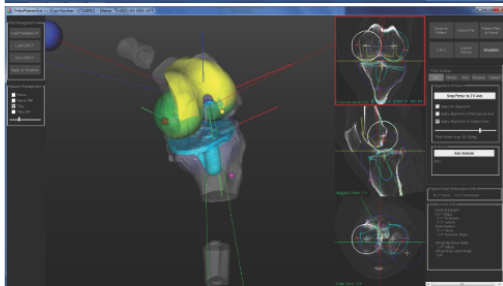
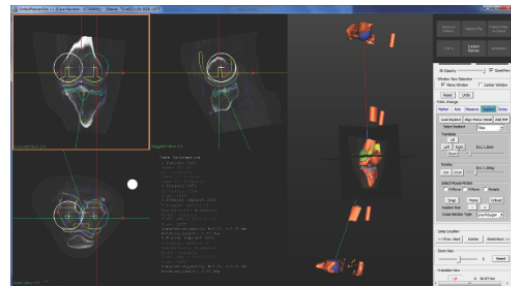
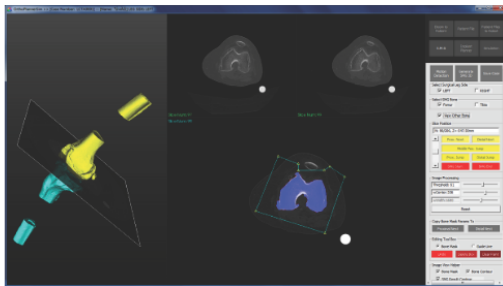
## Summary

Experienced Full Stack Developer with a background in robotics and web development. Proven track record in spearheading innovative projects. Strong skills in Remix, React.js, Redux, Node.js, and Django REST Framework. Known for critical thinking, time management, and effective communication. Ready to contribute to dynamic web development endeavors.

### ● — **MirusRobotPlanner** with Staubli Robot - 2020 — ●



### ● — **Orthoplanner** S/W for Knee Replacement Surgery - 2016 — ●



### ● — **3D Registration** for RoboDoc- 2013 — ●

