

Lynx Lu

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EDUCATION

University of British Columbia

MEng, Computer Engineering, Software Option

September 2018 | April 2020 (Expected)

BASc, Mechanical Engineering, Mechatronics Option

September 2013 | April 2018

WORK EXPERIENCE

Bosch (Germany)

January 2017 | September 2017

Sensor Validation / Software Engineering Intern

- Sped up data analysis process in the department by creating an automated MEMS testing process for detecting idle tones from sigma-delta converters using test equipment (LUA script).
- Developed C# software for control interface on centrifuge testing equipment which helped significantly speed up the data acquisition process at the laboratory.
- Created a Monte Carlo simulation in C for measuring ESD noise characteristics of sensor.

PROJECTS

Pinpoint - "Hiring Made Easy" App

url: (<https://git.io/fxw3T>)

September 2018 | Present

- Collaborating with other students on pinpoint, an app to allow for smoother application process for clubs and organizations with customizable candidate selection metrics and candidate filters.
- Implemented Golang backend modules with TLS secured communication with gRPC.
- Created backend core and gateway authentication method using metadata for authorization tokens.

Parking Spot Sharer App

url: (<https://git.io/fxuTY>)

July 2018 | August 2018

- Designed and implemented a parking share web app for users to share parking spots around the world by collaborating with two other teammates. (React.js frontend framework with react-router)
- Used MapBox API to display local parking spots from SQL database onto frontend (HTML/CSS/JS)
- Implemented backend RESTful APIs and database requests with the application.

Smart To-Do List App

url: (<https://git.io/fxuTt>)

June 2018 | July 2018

- Designed and Implemented a smart categorizing app for users to sort their to-do items automatically.
- Implemented all API requests responsible for automatic categorization of inputs from frontend.
- Acted as the full-stack programmer to connect all endpoints in the backend to the frontend implemented by the designer. (Used EJS for frontend)

UBC Thunderbots Robotics (Software Team)

September 2014 | May 2018

- Designed a team of autonomous robots to compete at the international Robocup robot soccer competition representing UBC with engineering students of various backgrounds.
- Implemented low level software primitives for tasks such as ball catching trajectory control in C and implemented testing of primitives with GTK gui for linux in C++.

Machine Vision Ping Pong Robot

September 2017 | October 2017

- Used OpenCV to perform frame by frame capture and color recognition using HSV color space with a GUI wrapper in C#.
- Implemented a dual camera system for pinpointing ball position in 3D space (side and top camera) with PS3EYE using Kalman filtering for ball trajectory analysis.
- Collaborated closely with a fellow student to complete the project within a tight deadline.

SKILLS

Programming Languages:	C, C++, C#, Javascript(Proficient), HTML, CSS
Data Analysis:	Python, Matlab, Supervised & Unsupervised Learning Methods
Frontend:	React.js, Embedded Javascript, SCSS, React-Router, jQuery
Backend:	PostgreSQL, MongoDB, Knex.js, Express.js, gRPC, Protobuf
Additional Tools / Libraries:	Unity Engine, OpenCV, Git, CLI, Linux

AWARDS

Dean's Honor List, UBC

2014, 2018

Robocup Competition, SSL Division 3rd place (Out of 25 Universities)

2018

Chancellor's Entrance Scholarship (95%+), UBC

2013